GENERAL CALENDAR 69-70

Coyola
OFMONTREAL



GENERAL CALENDAR 69-70

IT IS MY PRAYER THAT YOUR LOVE MAY GROW RICHER AND RICHER IN KNOWLEDGE AND PERFECT INSIGHT SO THAT YOU MAY HAVE A SENSE OF WHAT IS VITAL AND MAY BE MEN OF TRANSPARENT CHARACTER AND BLAMELESS LIFE.

St. Paul to Philippians 1, 9 & 10



1969-1970 7141 SHERBROOKE ST. WEST MONTREAL, TEL. 482-0320

ARTS COMMERCE ENGINEERING SCIENCE

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LOYOLA

50 acres of beautiful campus providing an opportunity for a complete academic experience as part of an exciting metropolis.

Included in the following code are buildings located in the immediate vicinity of the main campus.

- 1 ADMINISTRATION BUILDING
- 2 CENTRAL BUILDING
- 3 REFECTORY
- 4 HIGH SCHOOL
- 5 CHAPEL AND F. C. SMITH AUDITORIUM
- 6 VANIER LIBRARY
- 7 BOOKSTORE, CAFETERIA
- 8 PHYSICAL SERVICES
- 9 HINGSTON HALL, "A" BLOCK
- 10 HINGSTON HALL, "B" BLOCK
- 11 HINGSTON HALL, DINING ROOM
- 12 JESUIT RESIDENCE
- 13 ST. IGNATIUS PARISH CHURCH
- 14 BRYAN BUILDING
- 15 DRUMMOND SCIENCE LIBRARY
- 16 DRUMMOND SCIENCE BUILDING
- 17 DRUMMOND SCIENCE AUDITORIUM
- 18 HACKETT BUILDING
- 19 CLORAN BUILDING
- 20 ATHLETIC COMPLEX
- 21 EAST PARKING LOT
- 22 WEST PARKING LOT
- 23 ATHLETIC PARKING LOT
- 24 CENTENNIAL HALL
- 6935 and 6937 Sherbrooke Street West.
- 25 LANGLEY HALL (WOMEN'S RESIDENCE) 6900 Sherbrooke Street West.

ACADEMIC CALENDAR 1969 - 1970

SUMMER

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FEBRUARY
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ACADEMIC CALENDAR 1969-70

1969	
Sept.	D CC C C
9	Payment of fees for Commerce II, III and IV students 9:00 A. M. 12:00 Noon
	Registration of Commerce II, III and IV students 1:00 P. M.
	4:00 P. M.
10	Payment of fees for Arts IV students 9:00 A. M.
	12:00 Noon
	Registration of Arts IV students 1:00 P. M.
	4:00 P. M.
11	Payment of fees for Arts III students
	Registration of Arts III students
	4:00 P. M.
12	Payment of fees for Arts II students 9:00 A. M.
	12:00 Noon
	Registration of Arts II students
	4:00 P. M.
15	Payment of fees for Engineering II, III and IV and
	Science II, III and IV students 9:00 A. M. 12:00 Noon
	Registration of Engineering II, III and IV and
	Science II, III and IV students 1:00 P. M.
	4:00 P. M.
	Reception for all First Year students 9:30 A. M.
16	Payment of fees for Commerce I, Engineering I and
	Science I students 9:00 A. M. 12:00 Noon
	Registration of Engineering I students 1:00 P. M. Sharp
	Registration of Science I students
4.5	Registration of Commerce I students 3:00 P. M. Sharp
17	Payment of fees for Arts I students
	Registration of Arts I students
	3:00 P. M.
18	First term lectures begin.
22	Last day for late registration.
30	Last day for course changes, additions and deletions.
Oct.	and developed
13	Thanksgiving Day—Full holiday.
26	Fall Convocation.
Dec.	
10	First term lectures end.

Dec.			
11	Mid-Year final examinations begin.		
	Mid-Year tests for all first year students begin.		
1970 Jan. 5	Second term lectures begin.		
9	Last day for course changes, additions and deletions. (Second term half		
	courses only).		
Feb.	Father President's Holiday—Full holiday.		
March 12	Founders' Day		
25	Last day of lectures before Easter recess.		
31	Lectures resume.		
April 7	Last day of lectures.		
15	Final examinations begin.		
May 8	Last day for submitting documents needed to justify aegrotat standing and special examinations.		
30	Convocation		
June 1	Last day for making application to enter Loyola.		
15	Last day for making appeal to have an examination paper reviewed.		
July			
15	Last day for returning preregistration forms.		
	Last day for making appeal to repeat year.		

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Appointed	Term Ends
Appointed	Term Ends
Mr. J. Doyle Fr. J. O'Brien, S.J.	April 30, 1969 April 30, 1971
Elected - Arts	
Dr. F. G. W. Adams Dr. M. Andersen Mr. J. T. Copp Mr. R. Czerny - student Mr. A. Lallier Dr. A. Lauziere Dr. R. Hinners Dr. D. Savage Mrs. K. Waters	April 30, 1971 April 30, 1971 April 30, 1971 April 30, 1969 April 30, 1969 April 30, 1969 April 30, 1971 April 30, 1970 April 30, 1970
Elected - Science	
Dr. C. E. Eappen Dr. T. Nogrady Mr. G. O'Connell - student Fr. E. O'Connor, S.J. Mr. A. Prillo	April 30, 1969 April 30, 1970 April 30, 1969 April 30, 1971 April 30, 1970
Elected - Commerce	
Mr. J. R. Hanrahan Mr. P. Fournier - student	April 30, 1971 April 30, 1969
Elected - Engineering	
Mr. K. I. Krakow	April 30, 1969

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Development

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- HENKEY, Rev. C., B.C.L. (Gregorian), S.T.D. (Gregorian), Ph.D. (Gregorian) Professor, Theology
- HENRY, R. A., B.A. (Ohio University), M.S. (University of Mass.) Assistant Professor, Sociology
- HERSKOWITZ, D. S., B.S. (N. Y. C.) Assistant Professor, Economics
- HEWSON, C. G., B.A. (McGill)
 Sessional Lecturer, Mathematics

- HINNERS, R. C., B.A. (Harvard), M.A. (Toronto), Ph.D. (Toronto) Associate Professor, Philosophy
- HOFBECK, J., B.A. (Eichstate), C.C.E.S. (Paris, Sorbonne), S.T.L. (Institut Catholique, Paris), S.T.D. (Institut Catholique, Paris)
 Assistant Professor, Theology, and Communication Arts
- HOOPER, A. G., B.A. (Leeds), M.A. (Leeds), Ph.D. (Leeds) Professor, Chairman, English
- HUBBARD, W. H., B.A. (Oregon) Assistant Professor, History
- JACK, Miss, B., B.A. (McGill) Instructor, English
- JENKINS, J. T., B.Sc. (McGill), M.Sc. (McGill)
 Assistant Professor, Geotechnical Sciences
- JOLY, G. W., B.A. (Montreal), B.Eng. (McGill), M.Eng. (McGill) Professor and Chairman, Engineering, and Dean of Engineering
- JONES, P., L.Ph. (Gregorian University), S.T.L. (Gregorian) Assistant Professor, Theology
- JOOS, E., B.A. (Budapest), M.A. (McGill), L.Ph. (Montreal) Assistant Professor, Philosophy
- JOPE, J., A.B. (Boston College), M.A. (Princeton), Ph.D. (Princeton) Assistant Professor, Classics
- KALMAN, C. S., B.Sc. (McGill), M.A. (Rochester) Assistant Professor, Physics
- KAUFMAN, D. M., B.Eng. (McGill)
 Instructor, Engineering and Computer Science
- KAWAJA, P., B.Comm. (McGill), M.B.A. (Columbia) Assistant Professor, Business Administration
- KAWCZAK, A. S., L.L.M., M.A. (Cracow), Ph.D. (Warsaw) Associate Professor, Philosophy
- KEVICZKY, Attila, B.Sc. (Fordham University), M.Sc. (City College of the City University of New York)
 Lecturer, Mathematics
- KIM, H., B.Sc. (Seoul National University, Korea), M.Sc. (Seoul) Lecturer, Mathematics
- KLEIN, J. C., L. ès L. (Sorbonne, Paris), D.E.S. (Paris) Assistant Professor, French Studies
- KOVACS, R. L., Diploma Maths-Physics (Budapest), M.Sc. (McGill), Ph.D. (McGill)
 Associate Professor, Physics
- KOVATS, T. A., B.Sc. (Georgetown University), Ph.D. (Johns Hopkins) Assistant Professor, Physics
- KRAKOW, K. I., B.Eng. (McGill), M.Sc. (California Institute of Technology)
 Associate Professor, Engineering
- KRANTZBERG, J. A., B.Eng. (McGill) Lecturer, Engineering
- KRASHINSKY, M., B.Sc. (Massachusetts Institute of Technology) Engineering, Part-time

- KUBESH, D., M.A. (University of Manitoba)
 Assistant Professor, History
- KUBINA, S., B.Eng. (McGill), M.Eng. (McGill) Associate Professor, Engineering
- LABBE, G., B.Ed. (Montreal), B.A. (Montreal), L. ès L. (Montreal), D.U.P. (Lettres) (Paris)
 Professor, French Studies
- LACROIX, H., B.A. (University of Moncton), M.A. (Boston College) Lecturer, French Studies
- LADD, H. W., B.A. (Johnson State), M.A. (Windsor), Ph.D. (Windsor)
 Assistant Professor, Psychology and Communication Arts.
- LALLIER, A., B.A. (McGill), M.A. (Columbia)
 Assistant Professor, Economics
- LASZLO, L., B.A. (University of Illinois), M.A. (Columbia)
 Assistant Professor, Political Science
- LAU, H. H., Diplôme d'Etudes Supérieures de Philosophie (Saulchoir), M.A. (Montreal)
 Assistant Professor, Philosophy
- LAURION, Gaston, L. ès L. (Montreal), D.E.S. (Paris), D.U.P. Littérature française, (Paris)
 Associate Professor, French Studies
- LAUZIERE, A. E., B.A. (Ottawa), M.A. (Montreal), D.U.P. (Lettres) (Paris) Professor, French Studies
- LAVERY, J. J., B.A. (Manitoba), M.A. (Montreal), Ph.D. (Montreal) Associate Professor, Psychology
- LECKER, Mrs. E., B.A. (New Brunswick)
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- LEDUC, Mrs. Paule, B.A. (Sherbrooke), B.Péd. (Sherbrooke), M.A. (Montreal), D.U.P. (Lettres) (Paris)
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- LEVY, D., C.E.G. (Paris), L. ès L. (Bordeaux) Assistant Professor, French Studies
- LEWIS, Mrs. H., B.A. (Bishop's) Instructor, English
- LIGIER, Mrs. Marie-France, L. ès L. (Montreal), B.A. (Besançon) Lecturer, French Studies
- MacDONALD, D. F., B.Comm. (Sir George Williams)
 C.A. Assistant Professor, Accountancy
- MacGUIGAN, G., S.J., B.A. (Montreal), M.A. (Toronto) S.T.L. Associate Professor, English, and Dean of Arts
 - MacINTYRE, Miss, L., B.A. (University of Montreal)
 Instructor, English

- MACKRISS, J., B.A. (Toronto), B. L.S. (McGill), M.A. (Toronto) Assistant Professor, French Studies
- MacPHEE, H., S.J., B.A. (Montreal), M.A. (Toronto) S.T.L. Professor, Physics
- MAHEUX, M. V., B.A. (Montreal), M.A. (Catholic U. of America), Ph.D. (McGill)

 Associate Professor, and Chairman, Psychology
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- MAJUMDAR, K. N., B.Sc. (Calcutta), Ph.D. (Purdue) Assistant Professor, Mathematics
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- MALLOY, Sister Erin, B.A. (Dunbarton College), M.A. (St. Mary's, Notre Dame), M.A. (Université de Montréal)
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- MARTIN, R. K., B.A. (Wesleyan University)
 Assistant Professor, English
- MAX, J.

 Special Lecturer, Communication Arts
- MASSE, I., B.A. (Windsor), Ph.D. (State University of New York)
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- McDONOUGH, G., S.J., B.A. (Montreal), M.A. (West Baden) Sessional Lecturer, Mathematics
- McDOUGALL, D., B.Sc. (McGill), M.Sc. (McGill), Ph.D. (McGill) Professor, and Chairman, Geotechnical Science
- McELCHERAN, D., M.Sc. (McMaster), Ph.D. (Leeds) Associate Professor, Chemistry
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- NORRIS, J. N., B.Sc., M.Sc. (London) Lecturer, Business Administration
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- O'BRIEN, Sister Mary, B.S. (St. John University, N. Y.), M.A. (Gonzaga University)
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- O'CONNOR, Dennis, B.A. (Saint Louis University) Lecturer, Philosophy
- O'CONNOR, R. E., S.J., B.A. (St. Mary's, Halifax), M.A. (Toronto), S.T.L., Ph.D. (Harvard)
 Professor, Mathematics
- O'CONNOR, Mrs. J., B.A. (Webster College), M.A. (St. Louis University) Instructor, English
- O'DONNELL, Miss D., B.A. (McGill) Instructor, English
- OH, KI SONG, BA. (Chuo College, Tokyo), LLB (Tokyo), M.A. (University of Pennsylvania), Ph.D. (Pennsylvania)
 Associate Professor, Political Science

- O'KEEFE, C. B., S.J., B.A. (Montreal), M.A. (Toronto), S.T.L., Ph.D. (Toronto) Academic Vice President
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 Sessional Lecturer, Engineering
- OTTOLENGHI, Mrs. E., Certificat d'Etudes Françaises (Grenoble), Certificat de Cours de Professeurs de l'Ecole Pratique de l'Alliance Française (Paris), M.A. (Middlebury)

 Modern Languages
- OXFORD, E. P., B.A., M.A. (Los Angeles) Lecturer, French Studies
- PANUSKA, Mrs. J., B.A. (St. John's University, N. Y.), M.A. (Hunter, N. Y.) Instructor, English
- PAPADANTONAKIS, C., B.A. (Princeton), M.A. (Cornell) Assistant Professor, Economics
- PARIS, C. B., B.Th., S.T.L. (Laval), Diplômé I.S.P.C. (Paris) Assistant Professor, Theology
- PARK, Miss D., B.A. (College of William and Mary), M.A. (McGill), Ph.D. Assistant Professor, Philosophy
- PHILMUS, R. M., B.A. (Brown University), Ph.D. (University of California)
 Assistant Professor, English
- PHILMUS, Maria, Ph.D. (University of Ca' Foscari, Venice) Assistant Professor, English
- PINSON, W. E., B.A.Sc. (U. B. C.), M.A.Sc. (U. B. C.) Ph.D. (Purdue) Assistant Professor, Physics
- POLLER, Rabbi H. L., B.Sc. (University of Scranton), B. H. L., M.A. (Hebrew Union College)
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- PORTER, Mrs. Mary, B.A. (Oberlin College), M.A. (University of Minnesota)
 Part-time, History
- POTEET, Mrs. S. H., B.A. (Wellesley College), M.A. (University of Minnesota) Lecturer, English
- PRESTON, Mrs. E., B.A. (Manchester) Lecturer, Classics
- PRILLO, A., B.Sc. (Montreal), M.A. (Toronto)
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- RAHM, Miss L., A.B. (Washington University) Assistant Professor, English
- RASPA, A., B.A. (Montreal), B.Ed. (Montreal), M.A. (McGill), Ph.D. (Toronto) Assistant Professor, English
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- RESTUCCIA, P., B.A. (C. W. Post College), M.A. (Southern III. University), Ph.D. (Southern III. University)
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- RIEGEL, M., B. ès L. (Strasbourg), L. ès L. (Strasbourg), C.A.P.E.S. (Strasbourg et Sorbonne), D.E.S. (Strasbourg), Agrégé de l'Université (Lettres Classiques), (Sorbonne)

 Assistant Professor, French Studies
- RIGAULT, Mrs. O., B. ès L. (Rennes), Diplôme de Professeurs de Français à l'Etranger (Sorbonne) Lecturer, French Studies
- RIPSTEIN, H. B., B.Comm. (Sir George Williams), M.B.A. (Queen's) C.A. Assistant Professor, Business Administration
- ROUBEN, C., B.A. (Sir George Williams), L. ès Sc. (Paris), M.A. (McGill)
 Assistant Professor, French Studies, and Acting Chairman
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- RUSSELL, S., A.B. (Queen's College), M.A. (Harvard), Ph.D. (Harvard) Associate Professor, English
- SALMON, Miss P., B.A. (Sir George Williams) Lecturer, English
- SANTHANAM, S., M.A. (Madras), M.Sc. (Queen's), Ph.D. (Queen's) Assistant Professor, Physics
- SAUTTER, U., D.E.S. (Tubingen), Ph.D. (Tubingen) Assistant Professor, Modern Languages
- SAVAGE, D., B.A. (McGill), Ph.D. (London)
 Associate Professor, History, and Director, Centre for African Studies
- SAWYER, F., B.A. (Montreal), B.Rel.Sc. (Montreal) Lecturer, Theology
- SCHLACKS, C. H., B.A. (Detroit), M.A. (Michigan) Assistant Professor, History
- SHACTER, D., B.A. (Sir George Williams University), M.A. (University of Omaha), Ph.D. (Illinois Institute of Technology)
 Assistant Professor, Dept. of Psychology
- SHIN, J., B.S. (Swathmore College), M.Sc. (Cornell)
 Assistant Professor, Physics
- SHTERN, I., B.Sc. (Sir George Williams), M.A. (N. Y. U.), M.Sc. (McGill), Ph.D. (McGill)
 Associate Professor, Mathematics
- SNIDER, Miss L., B.A. (University of Toronto), M.A. (University of Toronto) Lecturer, Sociology and Communication Arts
- SORIC, J., B.Sc. (McMaster), M.Sc. (McMaster) Assistant Professor, Mathematics
- SPICER, M., B.A. (Montreal), M.A. (Montreal) Lecturer, Theology
- SPIVOCK, R., B.A. (McGill)
 Sessional Lecturer, History
- SRIVASTAVA, T., B.Sc. (Lucknow), M.Sc. (Lucknow)
 Assistant Professor, Mathematics
- SUDGEN, L., B.A. (Manitoba), B.Ed. (Manitoba), M.A. (Manitoba), Ph.D. (Nice)
 Assistant Professor, French Studies

- SULLIVAN, J. P., B.A. (University of Montreal) Instructor, English
- TASCONE, J. F., B.A. (St. Bonaventure), M.A. (St. Bonaventure)
 Associate Professor, and Chairman, Sociology
- THIRY, R., B.A. (University of Strasbourg), L. ès Sc. (University of Nancy), Eng.Deg. (E.N.S.I.C. Nancy), Econ. (Gert. University of Cologne, W. Germany), D.Sc. (University of Toulouse) Assistant Professor, Computing Science
- TIFFOU, Mrs. M., B. ès L. (Paris), Certificat d'Etudes de Languages Modernes (Sorbonne)
 Lecturer, French Studies
- TOUPIN, P., B.A. (Montreal), M.A. (Columbia), D.A.U. (Lettres), (Aix) Professor, French Studies
- TRSIC, Mrs. M., B.A. (Belgrade University), M.A. (University of Montreal) Lecturer, Modern Languages
- TRUCHON, N., B.A. (Laval), M.A. (McGill) Lecturer, French Studies
- TRUDEL, G., B.Sc. (McGill), Ph.D. (Leeds)
 Associate Professor, Chemistry
- UIHLEIN, G. V., B.Sc. (Worchester Polytechnic Institute), M.Sc. (Worchester) Sessional Lecturer, Chemistry, and Dean of Men
- ULLMAN, F. R., B.A. (Paris, France), Faculté de Lettres (Université de Paris) Lecturer, French Studies
- VALASKAKIS, Mrs. G., B.Sc. (University of Wisconsin), M.A. (Cornell)
 Assistant Professor, Communication Arts
- VAN TOCH, Mrs. L., B.A. (University of Durham), L. ès L. (Lille), M.A. (Durham)
 Assistant Professor, French Studies
- VASILKIOTI, A., B.Comm., L.A. (McGill) C.A. Lecturer, Accountancy
- VERRON, A., B. ès L. (Caen) Lecturer, French Studies
- VINCE, D., B.Sc. (Dalhousie), M.A. (Dalhousie) Sessional Lecturer, Political Science
- WALL, J., B.Sc. (Purdue University)
 Lecturer, Computing Science
- WARDELL, H., S.J., B.A. (Montreal)
 Assistant Professor, Engineering
- WARDY, Mrs. B., B.A. (McGill), M.A. (McGill) Assistant Professor, Classics
- WAREHAM, R., B.A. (R.M.C.), M.A. (Michigan) Assistant Professor, English
- WATERS, Mrs. K., B.A. (McGill), M.A. (Oxford) Assistant Professor, English
- WEBB, I. M., A.B. (Tufts University), M.A. (Stanford) Assistant Professor, English
- WEBSTER, A. J., B.A. (St. Thomas College, Denver), M.A. (St. Thomas College) Assistant Professor, Theology

WESOLOWSKY, S. O., B.A. (Montreal), M.A. (Princeton) Assistant Professor, Theology

WEST, P. R., B.A. (McGill) Instructor, English

WHITEHALL, E. C. C.A. Sessional Lecturer, Accountancy

WRIGHT, Mrs. B., B.A. (University of South Africa), M.A. (University of South Africa)
Assistant Professor, Economics

YALAMOW, N. P., B.L. (Paris), M.A. (Sofia), M.Sc. (Sofia), Agrégé d'Etat (Sofia), Ph.D. (Sofia)
Professor, Modern Languages

ZIENIUS, R., B.Sc. (McGill), Ph.D. (McGill) Assistant Professor, Chemistry

The Faculty listing is the same as that which appeared in the 1968-69 Calendar.

COMMITTEES:

The Committee on Appointments, Rank and Tenure:

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Secretary	Dr. F. G. W. Adams
	Dr. H. Habib
	Mr. J. Hanrahan
	Dr. T. Nogrady
	Rev C B O'Keefe S I

COMMITTEES OF SENATE

Note: The date assigned to each name is the retiring date. Where a date is not assigned the member belongs ex officio to the Committee.

Nominating Committee

Very Rev. Father President Prof. J. Hanrahan Rev. J. O'Brien, S.J. Rev. C. B. O'Keefe, S.J. Prof. A. Prillo

The Committee on Academic Standing:

D. M. D I.	1000	O1 :
Dr. M. Doughty	1969	Chairman
Dean L. M. Bessner		
Dr. M. Blanar		
Prof. R. Coolidge	1969	
Dean A. Graham, S.J.		
Prof. J. Hanrahan	1971	
Rev. C. Henkey	1970	
Dean G. W. Joly		
Dr. G. Labbé	1969	
Dean G. MacGuigan, S.J.		
Prof. I. Masse	1970	
Prof. L. Menard	1971	
Prof. R. C. Moore	1971	
Dr. A. Newell	1970	
Mr. J. Noonan		
Rev. C. B. O'Keefe, S.J.		
Mr. D. Potvin		

The Committee on Admissions:

Chairman

Prof. T. Copp	1969
Mr. W. Cozens	
Dean A. Graham, S.J.	
Prof. C. Hewson	1970
Dean G. Joly	
Dr. J. Lavery	1971
Dean G. MacGuigan, S.J.	
Mr. J. Noonan	
Mr. D. Potvin	
Dr. G. Trudel	1970

The Curriculum Committee:

Dr. J. Morgan	1971	Chairman
Dean L. M. Bessner	.,,,	Chairman
Dr. M. Blanar		
Dean A. Graham, S.J.		
Dr. A. G. Hooper	1969	
Dean G. W. Joly		
Prof. P. Kawaja	1970	
Prof. S. Kubina	1971	
Dr. A. Lauzière	1969	
Prof. J. Lempkowski	1969	
Dean G. MacGuigan, S.J.		
Dr. V. Maheux	1969	
Dr. D. J. McDougall	1970	
Rev. J. O'Brien, S.J.	1970	
Rev. C. B. O'Keefe, S.J.		
Mr. D. Potvin		
Prof. J. Soric	1971	
Prof. A. Webster	1971	

The Library Board:

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Prof. J. Tascone	1970	Chairman
Dr. S. Bagchi	1969	
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Prof. T. Faulkner	1971	
Prof. C. Goldman	1970	
Prof. J. Mackriss	1970	
Dr. J. Morgan	1969	
Rev. G. O'Brien, S.J.	1969	
Prof. C. Papadantonakis	1971	
Mr. J. Princz		
Prof. H. Ripstein	1970	
Dr. R. Ruigh	1971	
Prof. T. Srivastava	1970	
Mr. G. Trowsdale		

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Dr. M. Andersen	1970	Chairman
Dr. J. Buell	1971	
Prof. R. Coolidge	1969	
Mr W Cozens		

Dr.	M. Doughty	1969	
Mr.	P. Lefebvre		Secretary
Rev	. G. McDonough, S.J.		,
Mr.	T. Murphy		
Mr.	J. Noonan		
Prof	f. J. Soric	1970	
Mr	A Vasilkioti		

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Prof. C. Hewson	1969	Secretary
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Mr. R. Oakes		

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Prof. J. Mackriss	1969
Prof. K. Waters	1970

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Dr. F. Hayes	1971	
Dr. D. McDougall	1970	
Dr. V. McNamara	1969	
Dr. D. Savage	1971	
Dr. P. Toupin	1969	
Prof. K. Waters	1970	
Prof. A. Webster	1969	

Faculty Representatives on the Student Life Committee:

Dr. S. Alvi	1969
Dr. R. Hinners	1971
Prof. H. Ripstein	1970

The Evening Division Committee:

Mr. D. Potvin	Chairman
Dr. G. Adams	1971
Dr. M. Blanar	
Dr. H. Habib	1969

 Prof. I. Masse
 1969

 Prof. D. MacDonald
 1970

 Dr. D. McElcheran
 1971

 Mr. J. Noonan
 1970

 Prof. C. Rouben
 1970

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Dr.	D. Brown	1969	

Mr. W. Cozens Executive Secretary

HISTORY OF LOYOLA COLLEGE

The origins of Loyola College may be traced to the opening of the Collège Ste-Marie in 1848, which resumed in Montreal the work of the historic Jesuit College of Quebec, opened in 1635. From its conception the classical course at the College began with both languages, French and English, on an equal footing. From 1888 to 1896 the classical course in English was operated as distinct from that in French, both being considered separate units within one institution.

On September 2, 1896, Loyola College was opened at 2084 St. Catherine Street West, but only on February 2, 1899 was Loyola College incorporated by an Act of the Quebec Legislature. It had its origin in the separate course, inaugurated ten years earlier, for the English-speaking students at College Ste-Marie. On February 5, 1899, Laval University officially extended its Bachelor of Arts degree to Loyola students under the special privileges granted by the Holy See in its Constitution Jamdudum, and the first degrees were awarded by Laval in 1903. A similar arrangement was made with the University of Montreal when it was established. In consequence of these arrangements, Loyola was assured of complete autonomy and independence in the shaping of its curriculum and in the conducting of its examinations in Arts courses, degrees being granted by the University of Montreal. Loyola instituted its Faculty of Science in 1943 and its Faculty of Commerce in 1948. All courses in the three faculties are conducted at the College, and by special arrangement the University of Montreal grants B.Sc. and B.Comm. degrees to students who have successfully completed their courses in these faculties. The curriculum and examinations of these courses, however, are under the control of the University. Since the early days of Loyola, many changes have occurred, especially evident in the evolution of curriculum, which more and more set the College in the Anglo-Canadian tradition. For instance, the eight-year course was broken up into two distinct four-year units (1919) and options were introduced (1921), confirming three distinct courses, at least in the last two years of college; Arts (General), Arts (Pre-Medical), Arts (Pre-Science). In 1943 other changes were initiated which transformed Loyola into the developed academic institution it is today. A distinct Faculty of Science was established, offering Honours Chemistry and Honours Physics; the first three years of Engineering were introduced in Civil, Mechanical, Mining, Chemical, and Metallurgical Engineering; major fields in Economics, English and History were established in 1953 and in Theology in 1962. Honours Courses in Economics, English and History were initiated in 1958 and in Theology in 1963. An Extension Department, since renamed the Evening Division, and a Summer School were founded in 1957 to fill the need of those unable to pursue their studies during the day and thus provide a public service.

The academic world soon recognized the new status of Loyola: the Chemical Institute of Canada (CIC) approved the Honours Chemistry programme as fulfilling all the requirements for professional standing in its Institute; the Engineering Institute of Canada (EIC) recognized the competence of the Loyola Engineering Department; the Institute of Chartered Accountants of Quebec accepted the work done in the Commerce course, a major in Accountancy, and granted the same privileges to Loyola graduates as were conferred on graduates of other older institutions; the National Conference of Canadian Universities and Colleges accepted Loyola as an autonomous member. All faculties of the College have prepared students for, and have sent them to, the graduate schools of American, British and Canadian universities, which have conferred Engineering, Master's and Doctoral degrees on them.

The growth of Loyola has brought with it noticeable changes; for example, there are now four faculties and twenty-one departments; the number of lay members of the staff has increased very greatly; and, there has been a very ambitious building programme established to provide the necessary physical facilities.

The rising importance of the Extension Department and the Summer School necessitated a revaluation of the programme, in the course of which the Extension

Department was renamed the Evening Division of Loyola College and became more closely integrated with the Day Division of the College. The Summer School has retained its basic structure, but day courses were offered for the first time during the summer of 1964.

Further information about the work of these two divisions may be obtained from the director of the Evening Division.

AIM OF LOYOLA COLLEGE

The aim of Loyola College has been well stated by John Henry Cardinal Newman in a Sermon preached in the University Church at Dublin entitled "Intellect, the Instrument of Religious Training" in which he states: "... I wish the intellect to range with the utmost freedom, and religion to enjoy an equal freedom, but what I am stipulating for is, that they should be found in one and the same place (i.e., religion and science) and exemplified in the same persons... wish the same spots and the same individuals to be at once oracles of philosophy and shrines of devotion.

It will not satisfy me, what satisfies so many, to have two independent systems, intellectual and religious, going at once, side by side, by a sort of division of labour, and only accidentally brought together. It will not satisfy me, if religion is here and science there, and young men converse with science all day, and lodge with religion in the evening. It is not touching the evil, to which these remarks have been directed, if young men eat, and drink and sleep in one place, and think in another; I want the same roof to contain both the intellectual and moral discipline.

Devotion is not a sort of finish given to the sciences; nor is science a sort of feather in the cap, if I may so express myself, an ornament and set-off to devotion. I want the intellectual layman to be religious, and the devout ecclesiastic to be intellectual

Sanctity has its influence; intellect has its influence; the influence of sanctity is the greater on the long run; the influence of intellect is greater at the moment. Therefore in the case of the young, whose education lasts a few years, where the intellect is, there is the influence. Their literary, their scientific teachers, really have the forming of them . . . "

This is Loyola's reason for existence; this is Loyola's aim.

ADMISSIONS

Admission to first year is granted to students with Junior Matriculation.

Admission to second year is granted to students with Senior Matriculation.

Admission to second and third years is granted to transfer students.

Admission is granted on the basis of ability, achievement and promise as evidenced by:

- 1 Principal's Letter of Recommendation.
- 2 Official Academic Records.
- 3 Results of C.E.E.B. Tests: S.A.T. (verbal and mathematics), 3 achievement tests, one (1) of which must be English Composition. These tests should be written not later than March of the year for which application is being made

OR

Results of S.A.C.U. Tests: C.S.A.T. (Canadian Scholastic Aptitude Test) and C.E.L.A.T. (Canadian English Language Achievement Test).

4 Recommendation by the Admissions Committee, after interview if required.

Sometimes the Committee will recommend the admission of a mature student, over 21 years of age, whose secondary education has been interrupted by causes beyond his control. Sometimes it will recommend conditional admissions, with probationary requirements. Any student who fails to satisfy his probationary requirement must withdraw and will not be considered for re-admission.

(Note: All documents submitted become the property of the College if the applicant is accepted). Applications for admission should be addressed to the Registrar, Loyola College, 7141 Sherbrooke Street West, Montreal 262, not later than June

ADMISSION TO FIRST YEAR. In Canada, Junior Matriculation standing, with college entrance attainment, indicates ability, achievement and promise sufficient for admission into first year; specifically, The Catholic High School Leaving Certificate, Department of Education, Province of Quebec (10 papers), and The High School Leaving Certificate, Department of Education, Province of Quebec (10 papers), with 50 per cent in each paper and an average of 65 per cent for general studies, but 70 per cent for Honours studies and the Engineering programme. Consult individual study programmes for subjects required. English Literature, English Composition, Elementary Algebra and Elementary Geometry are always required. English Literature, English Composition, Intermediate Algebra, Trigonometry, Chemistry and Physics are required subjects for Honours Science Studies and the Engineering Programme.

Some equivalents of the above are: in the United States, Grade XII certificate with the college recommending mark as announced by the particular High School; in Great Britain, the General Certificate of Education, if it indicates satisfactory completion of five subjects at the ordinary level (including English, another language, and Mathematics); in Latin America, a certificate showing satisfactory completion of courses necessary for admission to university in the applicant's own country.

ADMISSION TO SECOND YEAR. In Canada Senior Matriculation or its equivalent is sufficient for clear entry, apart from prerequisites, into second year General studies in Arts, Commerce and Science II it is obtained with 50% in each paper and an average of 60%. A 70% average is required for Honours studies.

TRANSFER STUDENTS. Special admission to 2nd or 3rd year may be given to students in good standing applying for advanced standing with credit given for

work done at another university or college (transfer students). Applications for advanced standing should be addressed to:

The Registrar Loyola College 7141 Sherbrooke St. W., Montreal 262, Quebec

Applications must be made not later than June 1st. By July 15th applicants must present to the Registrar the following documents from the university they left:

- 1 an official transcript (indicating not less than 60% standing average);
- 2 a statement of honourable dismissal;
- 3 permission to enter the faculty, year and session for which application is being made at Loyola.

NOTE: No transfer student may be admitted directly into 4th year, because attendance at lectures for at least two academic years is required.

NOTE: Transfer students must have their academic status certified by department chairman and dean before registration date.

ACCEPTANCE. Upon receipt of a letter of acceptance applicants will be required to submit within a specified time a deposit of ONE HUNDRED DOLLARS (\$100.00). This deposit is NON REFUNDABLE but is deductible from tuition fees for the academic year. Failure to comply with this requirement is considered a forfeiture of acceptance.

GUIDANCE CENTRE

Cognizant of the changing times; sensitive to the numerous problems with which youth is confronted and anxious to aid students in achieving their full potential, Loyola opened a Guidance Centre in September 1965. The aims of the Centre are to assist students with (1) Academic Problems which are not solely of an educational nature, (2) the choice of a Vocation, (3) Personal Problems, (4) the Centre thus offers students an opportunity to discuss in all confidence, anything that bothers them. Aptitude, Personality, Vocational Interests, Achievement and Intelligence Testing is made available to those who could benefit by such testing. All students are encouraged to make full use of the Centre's facilities.

ACADEMIC COUNSELLING

All aspects of Academic Orientation, Counselling and Academic Administration for Freshman Students are under the direction of the Director of Freshmen. The upperclassman's academic work will be directed by the Head of the Department of the Faculty in which he is registered.

To facilitate counselling and to provide the Freshman Students with a counsellor from the faculty, a committee of Faculty Advisers operates under the Director. Each faculty member has a small number of students with whom he may become more closely associated than is possible in the lecture room, and whose academic work he reviews periodically with the student.

ACADEMIC REGULATIONS

Length of Programmes

Students who enter with Junior Matriculation standing will normally require four calendar years to obtain a Bachelor's degree.

A student may reduce the number of calendar years required for a degree by taking courses in Summer Sessions and carrying one course in excess of the normal year's load.

NOTE: Such acceleration requiring the prior approval of Chairman and Dean, will not be allowed until completion of 2nd year, and only if the student has obtained much better than average standing in 2nd year (70%).

WARNING: No credit will be granted for Summer Session courses taken without the required approval of Chairman and Dean, nor will the grades for such courses appear on the student's transcript.

YEAR'S LOAD: The normal course load for each year is indicated in departmental programmes.

Registration

Students must register annually at the times specified in the Academic Calendar (CF front of this book).

First year students register according to year, faculty and courses.

Upperclass students register according to year, faculty department and courses.

Some Specific Conditions:

- a) A student may register for 3rd year only if he has obtained complete standing in 1st year.
- b) A student may register for 4th year only if he has obtained complete standing in 2nd year.
- A student may register for advanced courses only if he has successfully completed prerequisite courses.
- d) A student may transfer to another department or faculty only if he has completed the proper forms.

Change of Registration

During a short period following registration (the date is specified in the Academic Calendar), a student may drop a course, with or without substituting another one, but only if his chairman recommends it, his Dean approves it, and the Registrar and instructor concerned are informed.

Some Special Purpose Categories:

- A) For Government purposes and Bursar's Office:
 - 1. FULL-TIME STUDENTS: full-time students are students registered for four or more full courses.

- 2. PART-TIME STUDENTS: part-time students are students registered for less than four full courses.
- B) For Registrar and Deans:
 - DEGREE CANDIDATES: Degree Candidates are students proceeding to a degree.
 - SPECIAL STUDENTS: Special Students are students full or part-time, not proceeding to a degree.

NOTE: A SPECIAL FEE IS CHARGED FOR LATE REGISTRATION: \$10.00 for the first day and \$3.00 for each succeeding day.

Graduation Registration

Fourth year students must, before February 2nd, make special application for their degrees, on forms provided by the Records Office.

Exchange Students

A student may study for one year (2nd or 3rd NOT 4th) at another university and have his work credited towards his degree provided that his Chairman and Dean have given prior approval.

Term Work

Term work includes written assignments, class, seminar and tutorial participation, work done in laboratory periods, and term tests and quizzes.

The grade-value of term work in any course can be up to 70%. Professors will make known to their students early in the term the grade value ratio of term work to final examination.

Students are expected to attend all lectures, seminars, tutorials and laboratory periods for which they are registered.

The penalty for plagiarizing is, of course, severe. The minimum penalty is zero for the assignment. Severer penalties may be recommended by professors.

Students should consult the Loyola Style Manual for the official description of plagiarism, and the Students' Academic Committee for details regarding their right to appeal.

Formal Examinations

First Year students must submit to formal examination in all courses at mid-year.

All students must submit to formal "Final" examinations in all courses.

At apt times the Registrar will post the "Examination Regulations".

Cheating: The penalty for cheating is, of course, severe. The minimum penalty is zero for the examination or test. Severer penalties may be recommended. Students should consult the Students' Academic Committee for details regarding their right to appeal.

Grading Scale

The grading scale both for individual courses and the year's average is as follows:

"A"	First Class Honours	80% and up
"B"	Second Class Honours	65% to 79%
"C"	Third Class	55% to 64%
"D"	Pass	50% to 54%
"F"	Failure	00 to 49%

Cum Laude

The Bachelor's Degree is granted according to these traditional categories:

Cum laude to students with a four year average of between 70%

and 79%.

Magna cum laude to students with a four year average of between 80%

and 89%

Summa cum laude to students with a four year average of 90% or over.

Academic Status

A student's academic status is determined in May and is based on all the courses for which he is registered.

A student is Clearly PROMOTED if he has failed no courses and has an average of 50% or better.

A student has Clearly FAILED

a) if his average is less than 50%

OR b) if he has failed more than two full courses.

A Clearly FAILED student will be allowed to repeat his year, upon request, if:

a) his average is not less than 35%

and b) he has not previously failed a year.

A FAILED student who does not satisfy these conditions MUST WITHDRAW.

A repeating student who is not CLEARLY PROMOTED in September MUST WITHDRAW.

The academic status of a student who is not clearly promoted, and has not clearly failed will be determined by his Dean in consultation with the Director of Freshmen, or the student's department Chairman.

Mid-Year Dismissal

A first year student who has failed to obtain 30% in the mid-year examinations MUST WITHDRAW. He may apply for readmission the following September.

A first year repeater who has failed to obtain 50% in the mid-year examinations MUST WITHDRAW.

Reports

Official reports will be issued:

- a) in January, for first year students;
- b) in May for all students.

Official May reports must be retained and presented at registration.

Recognition of Student Rights

If sickness, or death in the family, prevents a student from writing final examinations he should apply to the Academic Standing Committee for aegrotat standing, or permission to write special examinations.

The application plus relevant documents should be submitted to the Registrar not later than one week following the examinations.

A first year student required to withdraw at Christmas time may appeal to his Dean within one week of the publication of reports.

A student may appeal a punitive decision for alleged plagiarism or cheating. He should consult the Students' Academic Committee for procedures.

A student may appeal against what he considers unfair and unprofessional treatment by a professor or Dean. He should consult the Students' Academic Committee for procedures.

A student may, if he thinks that some factor affecting his grades was not considered by the examiner, appeal to have his paper reread. The appeal should be made in writing to the Registrar not later than two weeks after the publication of reports. A fee of \$10.00 is payable to the Registrar for rereading.

COLLEGIAL PROGRAMS

Those entering first year college in September, 1969 must follow one of the programs outlined on the following four pages.

ARTS

COLLEGIAL PROGRAM (REGISTRATION IN ANY COURSE IS SUBJECT TO SPACE AVAILABLE)

FIRST TEAK
English
French
Mathematics, Natural
Science¹, or
Engineering
Two courses from
two of the following:
Humanities²
Modern Languages and
Literature³
Social Science⁴

FIRST YEAR

SECOND YEAR
English
French
Three courses from a minimum
of two of the following:
Humanities²
Modern Languages and
Literature³
Social Science⁴
Mathematics, Natural Science,
Commerce or
Linguistics¹

Mathematics
 Natural Science
 Engineering and
 Commerce

Biology
Mathematics
Physical Science
Earth Science
Engineering Graphics?
Vector Analysis
Linguistics (in 2nd yr.
only)
Accounting (in 2nd yr.
only)
Business Adm. (in 2nd yr.
only)

3. Modern Languages & Literature

Italian German Russian Spanish English (in 2nd yr.) French (in 2nd yr.)

4. Social Science

7. Trigonometry Prerequisite

2. Humanities

Philosophy Classics History Religious Humanism Fine Arts

Interdisciplinary Studies

Economics Psychology Political Science Sociology

COMMERCE

COLLEGIAL PROGRAM (REGISTRATION IN ANY COURSE IS SUBJECT TO SPACE AVAILABLE)

FIRST YEAR
English
French
Mathermatics, Natural
Science¹, or Engineering
Two courses from two of the
following:
Humanities²
Modern Languages and
Literature³
Social Science4

SECOND YEAR
English
French
Elective
Elective
Electives

1. Mathematics Natural Science Engineering & Commerce

Biology
Mathematics
Physical Science
Earth Science
Engineering Graphics7
Vector Analysis7
Linguistics (in 2nd yr. only)
Accounting (in 2nd yr. only)
Business Adm. (in 2nd yr. only)
only)

2. Humanities

Philosophy Classics History Religious Humanism Fine Arts Interdisciplinary Studies 3. Modern Languages & Literature

Italian German Russian Spanish English (in 2nd yr.) French (in 2nd yr.)

4. Social Science

6. Accounting Recommended

Economics Psychology Political Science Sociology 7. Trigonometry Prerequisite

ENGINEERING

COLLEGIAL PROGRAM (REGISTRATION IN ANY COURSE IS SUBJECT TO SPACE AVAILABLE)

FIRST YEAR
Engineering Graphics
Chemistry
Heat & Sound SECOND YEAR Calculus Vector Kinematics Engineering Graphics Physical Chemistry Vector Analysis Analytic Geometry and Algebra Fortran Prog. Computer Professional Practice
Two courses from the following: French Humanities² English Modern Languages One course from the following: and Literature³ Social Science⁴ Humanities² Modern Languages and Literature³ Social Science⁴

2. Humanities

Philosophy
Classics
History
Religious Humanism
Fine Arts
Interdisciplinary
Studies

Modern Languages and Literature

Italian

German Russian Spanish English (in 2nd yr.) French (in 2nd yr.) 4. Social Science

Economics Psychology Political Science Sociology

SCIENCE (see 5 below)

COLLEGIAL PROGRAM (REGISTRATION IN ANY COURSE IS SUBJECT TO SPACE AVAILABLE)

FIRST YEAR
Chemistry
Chemistry
Physics
Mathematics
French
Humanities² or
Social Science⁴
(½ Algebra & Trig
for those who need it)
(½ Remedial English for
those who need it)

SECOND YEAR
Mathematics
English
Social Science4 or
Humanities2
Flaff Courses:
Biology
Chemistry
Computer Science
Geology
Physics
Mathematics

2. Humanities Philosophy Classics

History

Religious Humanism Fine Arts

Interdisciplinary

Studies

4. Social Science Economics

Economics Psychology Political Science Sociology If student opts for Humanities in 1st year Science, he must take Social Science in 2nd year Science & vice yersa

FACULTY OF ARTS

Students admitted to Arts follow General and Honours programmes of twenty-one courses for four years.

An Honours student, one who welcomes the opportunity for deeper and more intensive study, with an eye, perhaps, to post-graduate studies, will choose (subject to departmental approval) from: Classics, Economics, English, French Studies, History, Philosophy, Political Science, Theology.

A General Arts student will choose a field of concentration ("major") from: Classics, Communication Arts, Economics, English, French, German, History, Modern Languages, Philosophy, Political Science, Psychology, Sociology, Spanish, Theology. The field of concentration is normally chosen at the end of first year.

Under "Department of Interdisciplinary Studies" students will find a list of actual and proposed interdisciplinary courses.

Of special interest is the proposed program of "related courses" that will enable a General Arts student to proceed to a degree by substituting for a "major" a cluster of related courses.

Proposed courses and programs will be approved or rejected by Senate by the time this Calendar appears.

A chosen field of concentration or an honours programme may dictate the electives to be taken in first year. Students should consult with the department of their choice during the period of academic counselling preceding registration.

PROGRAMMES OF STUDIES AVAILABLE—FACULTY OF ARTS

			_		_	_			_					$\overline{}$	$\overline{}$	_	_	
	Theology	2				2					က					3	m	71
	Political Science	1		-	-	1					2	0				2	4	21
	Philosophy	2			1	22					8					2	4	21
URS	History	-			-	-		13			2					2	4	21
HONOUR	French	-			-						2					2	4	21
Ξ	English	2			6	1					2					2	2	21
	Economics	-		6	-	2			-		2					2	3	21
	Classics	=			1	2					2					2	4	22
JOINT	Political Science and Economics	2		4	2	2					2	2				2	2	21
	Тһеоіоду	2			2	2					4					7	4	21
	Spanish	2			2	2					2					2	41	21
	Sociology	2			2	2					2			[2]		2	4	21
	Psychology	2			2	2			1		2		9			2	4	21
	Political Science	2			2	2					2					2	4	21
	Philosophy	2			2	2					9					2	7	21
ORS	Modern Languages	1			2	3		1		6	2					2	1	21
MAJO	History	2			2	2		9			2					2	5	21
	German	2			2	2	œ				2					2	3	21
	French	2			2	<u></u>					2					2	2	21
	English	2				2					2					2	9	21
	Economics	2		<u></u>	2	2			-		2					2	2	21
	Communication Arts	2			2	2					2					2	4	21
	Classics	∞			2	2					2					2	9	22
		Classics	Communication Arts	Economics	English	French	German	History	Mathematics	Modern Languages	Philosophy	Political Science	Psychology	Sociology	Spanish	Theology	Electives	Required Courses

1Two of the Electives Courses must be Language electives.

2Second year French may be replaced by Language elective.

NOTE: The 21 course programme began with Freshman Registration '67. Consequently, Fourth Year students 69-70 are still bound by the 22 course programme.

BACHELOR OF ARTS PROGRAMMES

	DACIN	ELUK UF AKIS		
		HONOUF	RS	
YEAR	CLASSICS	ECONOMICS	ENGLISH	FRENCH
FIRST	ı	DISCONTINUED — SE	E COLLEGIAL PROGRAM	٨
SECOND	Greek Latin (2) French Philosophy Elective	Economics 260 Economics 271 French Philosophy Theology Elective	Classics or English 680 or 590 English (the equivalent of two full courses from 610, 613,620, 633, 643, 653, 673, 674) Philosophy Electives (2)	French 230 French (the equivalent of one full course from the list of Honours and Majors courses, except 428, 432, 434, 440 Philosophy Theology Electives (2)
THIRD	Greek (2) Latin Ancient History Philosophy Theology	Economics 304 Economics 366 Econ. Elective Philosophy Theology	English (the equivalent of three full courses from the list of Honours and Major courses) Philosophy Elective	French (the equivalent of four full courses from the list of Honours and Majors courses) Philosophy
FOURTH	Greek Honours Tutorial Latin Honours Tutorial Prose Composition Theology Elective	Economics 461 or 464 or 480 Econ. Electives (2) Electives (2)	English (the equivalent of three full courses from the list of Honours and Majors courses) Theology Elective	French 428 (if not yet taken) French (the equivalent of two full courses from the list of Honours and Majors courses) French 500 Theology

BACHELOR OF ARTS PROGRAMMES

HONOURS					
YEAR	HISTORY	PHILOSOPHY	POLITICAL SCIENCE	THEOLOGY	
FIRST	D	OISCONTINUED — SEI	E COLLEGIAL PROGRAM		
SECOND	History (three Electives from General courses) Philosophy Theology	Classics 112 or 202 or 212 or 221 Language Philosophy 200 History of Phil. Theology Elective	Economics 100 Philosophy Poli. Sci. 500 Poli. Sci. 595H Theology Elective	Classics 112 or 202 or 212 or 221 French Philosophy Theology Electives (3)	
THIRD	Honours History Tutorial History (two Electives from Honours courses) Philosophy Elective	History of Phil. Philosophy Seminar Philosophy Electives (2) Theology	Philosophy Poli. Sci. Electives (3) Elective	Philosophy Social Science Theology Electives (3)	
FOURTH	Honours History Tutorial History (two Electives from Honours courses) Theology Elective	History of Phil. Philosophy Seminar Philosophy Electives (2) Elective	Poli. Sci. 795H Poli. Sci. Electives (3) Theology	Philosophy Theology Electives (3) Elective	

BACHELOR OF ARTS PROGRAMMES

BACHELOR OF ARTS PROGRAMMES								
	MAJORS							
YEAR	CLASSICS	COMMUNICATION ARTS	ECONOMICS	ENGLISH				
FIRST		DISCONTINUED — SEE	COLLEGIAL PROGRAM	И				
SECOND	Classics (2) English French Philosophy Theology	Classics Comm. Arts 200- 205 English French Philosophy Elective	Classics 112 or 202 or 212 or 221 Economics 210 Economics 221 or 202 French Philosophy Theology	Classics English (the equivalent of two full courses from 610, 613, 620, 633, 643, 653, 673, 674) French Philosophy Elective				
THIRD	Classics (3) Theology Electives (2)	Comm. Arts Electives (3) Philosophy Elective	Economics 304 Economics 306 English Philosophy Theology	English (the equivalent of two fullcourses from the list of Honours and Majors courses) Philosophy Electives (2)				
FOURTH	Classics (2) Philosophy Electives (2)	Comm. Arts Electives (3) Theology or Comm. Arts 450 Elective	Econ. Electives (3) Electives (2)	English (the equivalent of two full courses from the list of Honours and Majors courses) Theology Electives (2)				

BACHELOR OF ARTS PROGRAMMES

		MAJORS		
YEAR	FRENCH	GERMAN	HISTORY	MODERN LANGUAGES
FIRST	D	ISCONTINUED — SEE	COLLEGIAL PROGRAM	
SECOND	Classics English French 230 French (the equivalent of one full course from the Honours and Majors courses, except 428, 432, 434, 440 Philosophy Theology	Classics 112 or 202 or 212 or 221 English French 220, 224, 228, 230-240, 250 or 260 German 200 Philosophy Theology or Elective	Classics 112 or 202 or 212 or 221 French History (two Electives from General courses) Philosophy Theology	English French 224, 228, 230-240, 250 or 260 History Mod. Lang. (two Electives from: German 200, Italian 200, or Spanish 200) Philosophy
THIRD	French (the equivalent of two full courses from the Honours or Majors courses) Philosophy Electives (2)	German 300 or History 214 German (two Electives from 300s or 400s) Philosophy Theology or Elective	English History (two Electives from General or Honours courses) Philosophy Elective	Mod. Lang. (three Electives from the 300s in German, Italian, or Spanish) Philosophy Elective from Political Science or Sociology
FOURTH	French (the equivalent of three full courses from the Honours and Majors courses; French 428 is strongly recommended) Theology Elective	German (three Electives from 300s or 400s) Language Elective Theology or Elective	History (two Electives from General or Honours courses) Theology Electives (2)	French Mod. Lang. (two Electives from the 300s or 400s in German, Ital- ian or Spanish) Theology Elective in one of the two major Modern Languages

BACHELOR OF ARTS PROGRAMMES

MAJORS								
YEAR	PHILOSOPHY	POLITICAL SCIENCE	PSYCHOLOGY	SOCIOLOGY				
FIRST	FIRST DISCONTINUED — SEE COLLEGIAL PROGRAM							
SECOND	Classics 112 or 202 or 212 or 221 English French History of Phil. Philosophy 200 Theology	Classics 112 or 202 or 212 or 221 English French Philosophy 200 Poli. Sci. 500 Theology	Classics 112 or 202 or 212 or 221 French Philosophy Psychology 201 Statistics 202 Theology	Classics English French Sociology 200 Sociology 201 or 203 or 205 Sociology 202 or 204 or 206 Theology				
THIRD	History of Phil. Philosophy Seminar Theology Electives (2)	Philosophy Poli. Sci. Electives (3) Elective	Psychology 305 Theology Electives (3)	Philosophy Sociology 300 Sociology 350 Sociology Elective Elective Theology				
FOURTH	History of Phil. Philosophy Seminar Electives (3)	Poli. Sci. Electives (3) Theology Elective	English Philosophy Electives (3)	Philosophy Sociology 400 Electives (3)				

BACHELOR OF ARTS PROGRAMMES

	MAJ	ORS	JOINT MAJOR
YEAR	SPANISH	THEOLOGY	POLITICAL SCIENCE AND ECONOMICS
FIRST		DISCONTINUED — SE	E COLLEGIAL PROGRAM
SECOND	Classics 112 or 202 or 212 or 221 English French 220, 224, 228, 230-240, 250 or 260 Philosophy Spanish 200 Theology or Elective	Classics 112 or 202 or 212 or 221 English French Philosophy Theology Electives (2)	Classics Economics 210 Economics 221 or Elective French Political Science Philosophy
THIRD	Language Elective Philosophy Spanish (two Electives from 300s and 400s) Theology or Elective	Philosophy Social Science Electives (2) Theology Electives (2)	Economics English Political Science (2) Theology
FOURTH	Language Elective Spanish (three Electives from 300s and 400s) Theology or Elective	Philosophy (2) Social Science Elective Theology Electives 2	Economics Political Science (2) Philosophy Theology

FACULTY OF COMMERCE

A Bachelor of Commerce degree has been available from Loyola since 1948. Initially offering studies with emphasis on Economics and Accountancy, it now includes the general area of Business Administration. Despite the requirement that students specialize in one of these three fields, the degree offers a broad education in the humanities.

Students in the Honours programme (Economics only) must maintain a yearly average of 65%, and not less than 65% in any course in their field of concentration. All candidates must have a minimum of twenty-two recognized academic credits to receive the degree. To graduate with a Bachelor of Commerce (Major) degree (in Economics, Accountancy and Business Administration), a student must satisfy the ordinary requirements for the degree and obtain an average of 65% for the courses in his chosen discipline taken in second, third and fourth year. If a student fails to satisfy the specified average he will graduate with a general Bachelor of Commerce degree. Furthermore if a student fails any one of the courses in his chosen discipline, he will graduate with a general degree.

The requirements for graduation with a major will apply to Third and Fourth year courses for the class of 1971 and to Second, Third and Fourth Year courses for classes subsequent to 1971.

THE BACHELOR OF COMMERCE PROGRAMMES

		MAJORS		HONOURS
YEAR	ACCOUNTANCY	BUSINESS ADMINISTRATION	ECONOMICS	ECONOMICS
FIRST	С	DISCONTINUED — SEI	E COLLEGIAL PROG	RAM
SECOND	Accounting 205 Business 204-215 Business 207 French Philosophy Theology	Accounting 205 Business 204-215 Business 207 French Philosophy Theology	Accounting 205 Economics 210 Economics 221 or 202 French Philosophy Elective	Economics 260 Economics 271 French Philosophy Elective (2)
THIRD	Accounting 306 Business 301 Business 308 English Elective	Business 301 Business 306 Business 308 Business 320 English	Economics 304 Economics 306 English Philosophy Theology	Economics 304 Economics 366 Economics Elective Philosophy Theology
FOURTH	Accounting 403-404 Accounting 413 Business 402 Philosophy Theology Elective	Business Elective Philosophy Theology Electives (3)	Economics Electives (3) Electives (2)	Economics 461 or 464 or 480 Economics Electives (2) Electives (2)

FACULTY OF ENGINEERING

The overall objectives of the Faculty of Engineering are the growth and development of the student into a self-identifiable person and the acquisition by him of the knowledge upon which to build his career. In the concrete, these goals are proposed to the student as a personal search for excellence and the forming of himself to manage industry, whether technically or administratively. While the subjects of the curriculum - technology, science, humanities, professional practice - have to be presented as discrete disciplines, the Faculty seeks at all times to make the student aware that he must integrate them into his personality so that they become the foundation for supporting his chief function in society - the making of decisions.

FACULTY OF SCIENCE

Beginning with the academic year 1967-68, the Science Faculty introduced several significant programme changes.

The freshman year, traditionally common to all departments, will be so maintained as far as possible. However, at the beginning of the second semester, each student will be asked to choose one of three electives (half courses): Biology 101, Geotechnical Science 202, Mathematics 121. At the beginning of the sophomore year, the student must definitely commit himself to a particular departmental programme, choosing one of biology, chemistry, geotechnical science, mathematics, physics, psychology. Within each department programmes at several levels will be offered, as follows:

- 1. A newly introduced B.Sc. programme, designated a general course with concentration, and designed for students who do not plan to continue their scientific training beyond the Bachelor level. Offered by chemistry, geotechnical science, mathematics and physics.
- 2. A major programme, leading to a B.Sc. with greater concentration in the chosen field. Designed for students capable and willing to concentrate in a designated area, students who may develop latent talents and may, perhaps with the help of a qualifying year after graduation, continue to higher degrees. Offered in biology, chemistry, geotechnical science, mathematics, physics and psychology.
- 3. An honours programme in chemistry, mathematics, physics. Those completing this exacting programme usually proceed to graduate school and advanced degrees. Applicants must have completed their freshman year at Loyola with approximately 70% average and no failures (or comparable standing in Grade 12).

Honour students must maintain a yearly average that does not drop below 65% and obtain not less than 65% in each course of their field of concentration.

It should be noted (a) that the student load in the above programmes varies in quantity rather than quality, (b) the programmes have been arranged with increasing work loads to permit students to obtain good marks in the courses in which they are registered; failure to maintain a satisfactory standard will result in the student being asked to drop to a less concentrated programme, (c) each department is responsible for deciding the category which a student may enter and in which he may continue; no student may claim a right to proceed in a programme against the judgment of the department concerned.

THE BACHELOR OF SCIENCE PROGRAMMES

	HONOURS					
YEAR	CHEMISTRY	MATHEMATICS	PHYSICS			
FIRST	DISCONTINUED — SEE COLLEGIAL PROGRAM					
SECOND	Chemistry 211 Chemistry 212 Chemistry 221 Chemistry 221 Chemistry 231 Mathematics 232 Philosophy Theology	Mathematics 220 Mathematics 231 Mathematics 201 or 240 Mathematics 234 Philosophy Physics 205	Mathematics 231 Mathematics 234 Philosophy Physics 205 Physics 220 Physics 301 Physics 309			
THIRD	Chemistry 313 Chemistry 323 Chemistry 324 Chemistry 332 Chemistry 333 Chemistry 334 English Mathematics 332 Philosophy Physics 205 (Theory)	Mathematics 320 Mathematics 321 Mathematics 330 Philosophy Physics 311 Theology	Philosophy Physics 306 Physics 307 Physics 310 Physics 320 Physics 304 or 411 Physics 305 or 410 Theology			
FOURTH	Chemistry 425 Chemistry 426 Chemistry 435 Chemistry 436 Chemistry 437 Chemistry 450 Philosophy or Theology	English Mathematics 421 Mathematics 430 Mathematics 490 One or two from: Mathematics 401, 440, 460, 470-471, 480 Philosophy or Theology	English Physics 403 Physics 404 Physics 408 Physics 410 or 304 Physics 410 or 305 Philosophy or Theology			

THE BACHELOR OF SCIENCE PROGRAMMES

		MAJORS	
YEAR	BIOLOGY-CHEMISTRY	CHEMISTRY	GEOTECHNICAL SCIENCE
FIRST	DISCONTINUED — SEE COLLEGIAL PROGRAM		
SECOND	Biology 202 Chemistry 212 Chemistry 221 Chemistry 222 Philosophy Theology	Chemistry 212 Chemistry 221 Chemistry 222 Chemistry 231 Mathematics 232 Philosophy Theology	Chemistry 211 Chemistry 212 Geot. Sci. 203 Geot. Sci. 205 Geot. Sci. 303 Geot. Sci. 304 Geot. Sci. 310 Geot. Sci. 404 Mathematics 121 Philosophy Theology
THIRD	Biology 304 Biology 305 Chemistry 323 Chemistry 324 Mathematics 202 Philosophy	Chemistry 211 Chemistry 313 Chemistry 323 Chemistry 324 Chemistry 334 English Philosophy	Chemistry 231 Engineering 802 Geot. Sci. 305 Geot. Sci. 306 Geot. Sci. 401 Geot. Sci. 403 Geot. Sci. 409 Geot. Sci. 409 Philosophy Physics 205
FOURTH	Biology 406 Biology 408 English 366 English 360 Philosophy or Theology Two Electives	Chemistry 332 Chemistry 333 Chemistry 425 Chemistry 426 Philosophy or Theology	English Geot. Sci. 204 Geot. Sci. 405 Geot. Sci. 406 Geot. Sci. 407 Geot. Sci. 408 Geot. Sci. 408 Geot. Sci. 408 Or Sci. 408 Geot. Sci. 408 Or Theology

THE BACHELOR OF SCIENCE PROGRAMMES

		MAJORS	
YEAR	MATHEMATICS	PHYSICS	PSYCHOLOGY
FIRST	DISCONTINUED — SEE COLLEGIAL PROGRAM		
SECOND	Mathematics 221 Mathematics 232 One from: Mathematics 201 Mathematics 240 Philosophy Physics 205 Theology	Mathematics 231 Mathematics 234 Philosophy Physics 205 Physics 220 Physics 301 Physics 309	Statistics 202 Chemistry 221 Chemistry 222 English Philosophy Psychology 201 Theology
THIRD	Mathematics 234 Mathematics 331 Mathematics 320 Philosophy Physics 311	Philosophy Physics 302 Physics 304 Physics 307 Physics 320 Theology	Biology 331 Philosophy Psychology 305 Two Electives
FOURTH	English Mathematics 321 Mathematics 330 Mathematics 490 One from: Mathematics 401, 440, 460, 470-471, 480 Philosophy or Theology	English Physics 306 Physics 310 Physics 403 Philosophy or Theology	Philosophy or Theology Psychology 401 Three Electives

THE BACHELOR OF SCIENCE PROGRAMMES

AFNEAN				
		GENERA	L	
YEAR	CHEMISTRY	GEOTECHNICAL SCIENCE	MATHEMATICS	PHYSICS
FIRST	DISCONTINUED — SEE COLLEGIAL PROGRAM			
SECOND	Chemistry 212 Chemistry 221 Mathematics 232 Philosophy Theology	Chemistry 211 Chemistry 212 Geot. Sci. 203 Geot. Sci. 205 Geot. Sci. 310 Geot. Sci. 404 Mathematics 121 Philosophy Theology	Mathematics 221 Mathematics 232 Philosophy Theology One Elective	Mathematics 232 Philosophy Physics 201 Physics 205 One Elective from: Biology Chemistry 231 Geot. Sci.
THIRD	Chemistry 231 Chemistry 222 Chemistry 314 English Philosophy One Elective	Chemistry 231 Geot. Sci. 305 Geot. Sci. 306 Geot. Sci. 401 Geot. Sci. 405 Philosophy Sc. Elective (1)	English Mathematics 201 Mathematics 234 Mathematics 240 Philosophy	Philosophy Physics 307 Physics 311 Sc. Elective (1) Theology
FOURTH	Chemistry 313 Chemistry 324 Philosophy or Theology One Elective	English Geot. Sci. 406 and either (a), (b) or (c) (a) Geot. Sci. 407 Sc. Elective (1) (b) Geot. Sci. 204 Geot. Sci. 204 Geot. Sci. 303 Geot. Sci. 303 Geot. Sci. 410 Philosophy or Theology	Mathematics 320 Mathematics 331 Philosophy or Theology One Elective	English Philosophy or Theology Physics 302 Physics 304 Sc. Elective (2)

ACCOUNTANCY



Associate Professor	
(Acting Chairman)	J. R. Hanrahan
Associate Professor	L. M. Bessner
Assistant Professors	D. F. MacDonald, R. L. McGraw
Lecturers	H. J. Dauderis, A. Vasilkioti
Sessional Lecturers	H. S. Greenspon, E. C. Whitehall

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See	Accounting 205	Accounting 306	Accounting 403-404
Collegial Program	Business 204-215	Business 301	Accounting 413
	Business 207	Business 308	Business 402
	French	English	Philosophy
	Philosophy	Elective	Theology
	Theology		Elective

- 1) Elective courses must be approved by the Department.
- 2) It may be necessary to limit enrolment in some of the above courses.

THE INSTITUTE OF CHARTERED ACCOUNTANTS

Students holding the Bachelor of Commerce degree with a Major in Accountancy from Loyola of Montreal at the time of registering with The Institute of Chartered Accountants of Quebec, may apply for exemption from three of the five years for training and course work required for the C.A., certificate. The Department of Accountancy will recommend exemption for students based on academic achievement. To meet the needs of Loyola graduates in fields other than Commerce, or holding Commerce degrees in areas other than Accountancy, the Institute normally grants exemption from two of the five years of training and course work and offers a three year programme of accelerated courses. Further information may be obtained from the Chairman of the Department of Accountancy.

THE SOCIETY OF INDUSTRIAL ACCOUNTANTS

Students holding a Bachelor of Commerce degree with a Major in Accountancy from Loyola of Montreal at the time of registration with The Society of Industrial Accountants of Quebec, are usually granted exemptions from a large proportion of the Society's course work leading to the R.I.A. certificate. Further information may be obtained from the Chairman of the Department of Accountancy.

101 Introductory Accounting. Full Course.

Required for all first year Commerce students. An introductory study of accounting principles and practice.

205 Management Accounting. Full Course.

This course is designed to develop, through verbal and written analyses of managerial control cases, understanding and skill in the use of financial data in business. An examination is made of current standards of financial reporting, but emphasis is placed on the internal use of such data as a basis for managerial decisions.

Prerequisite: Accounting 101.

306 Advanced Financial Accounting. Full Course.

Emphasizes specialized areas, particularly those related to business combinations. Prerequisite: Accounting 101.

310 Introductory Accounting Analysis, Finance and Taxation. Full Course.

An optional course available to students in the Faculties of Arts, Science and Engineering who have not previously studied accounting at the university level. An introduction to the accounting method, and the analysis of financial statements and funds flow, with a related examination of the areas of costing, business finance and taxation.

403 Cost Accounting. Half Course.

The development and interpretation of cost accounting information as a tool of business management.

Prerequisite: Accounting 205.

404 Taxation, Half Course.

The Canadian taxation structure as related to theoretical and practical problems of income and estate taxes is examined. Executorship accounting and an introduction to estate planning are included. Other areas of taxation are surveyed.

406 Finance. Full Course. (See Business 301)

413 Auditing and Investigation. Full Course.

Introduction to auditing; classification and scope of audits; internal control; legal and moral responsibilities of auditors; auditing standards; advanced auditing and investigations; C.I.C.A. handbook.

Prerequisite: Accounting 101.

BIOLOGY



Professor (Chairman) Assistant Professors Rev. S. Drummond, S.J.

Rev. R. T. Cronin, S.J., K. S. Dhindsa

Courses leading to a E	3.A. with a Major in Biolo	gy-Chemistry (a).	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued	Discontinued	Discontinued	BIOLOGY 406 BIOLOGY 408 CHEMISTRY 221 CHEMISTRY 222 English 360 Philosophy or Theology
Courses leading to a l	3.Sc. with a Major in Bio	logy-Chemistry.	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	BIOLOGY 202 CHEMISTRY 212 CHEMISTRY 221 CHEMISTRY 222 Philosophy Theology	BIOLOGY 304 BIOLOGY 305 CHEMISTRY 323 CHEMISTRY 324 Mathematics 202 Philosophy	BIOLOGY 406 BIOLOGY 408 English 360 Philosophy or Theology Two Electives

⁽a) The B.A. Biology-Chemistry Major will be discontinued after 1969-70.

131 Fundamentals of Biology. Full Course.

K. S. Dhindsa

A series of lectures designed to acquaint the general Arts student with those fundamental principles of life which are the basis for an understanding of the structure and function of the living body.

Lectures: three hours per week for two terms.

Text: Whaley, Breland et al: Principles of Biology (3rd Edition), Harper & Row.

202 Invertebrate Zoology. Full Course.

R. T. Cronin

Theory. The course begins with a study of scientific methodology and its application to the living sciences. The nature and characteristics of protoplasm are explained and these are correlated with a discussion of the cell as the unit of structure and function. These basic principles are then utilized in a detailed study of the phyla of the invertebrate animals.

Laboratory. A detailed study of representative animals of the invertebrate phyla. The first part offers intensive exercises in the use of the microscope and the interpretation of microscopic sections. The second half affords training in manual dexterity necessary for precise dissection.

Lectures: 2 hours per week for two terms.

Lab.: 3 hours per week for two terms.

Text: Storer and Usinger, General Zoology, McGraw-Hill.

231 General Zoology. Full Course.

K. S. Dhindsa

A study of the zoological principles of structure, function and development in a selected series of invertebrate and vertebrate animals.

Laboratory: three hours per week for two terms.

Text: Storer and Usinger: General Zoology. McGraw-Hill.

304 Vertebrate Zoology. Full Course.

S. Drummond

The course includes a study of the characteristics and classification of the vertebrates. The important type vertebrates are studied in detail, particular stress being laid on embryological development, structure and function.

Lectures: two hours per week for two terms.

Text: Storer and Usinger: General Zoology, McGraw-Hill.

305 Vertebrate Zoology Laboratory. Half Course.

S. Drummond

The course comprises a detailed study of the structure of amphioxus, dogfish, frog and rabbit. The course is so conducted that, by carefully executed dissections and drawings, the student may be able to trace the main features of organization from the lower to the higher vertebrates.

Laboratory: six hours per week for two terms.

Texts: Storer and Usinger: General Zoology, McGraw-Hill.

Craigie: Bensley's Practical Anatomy of the Rabbit, Univ. of Toronto Press.

331 Introductory Neurology. Full Course.

Drummond

A study of the nervous system of the vertebrates, especially the mammal. The course is offered to students in the Department of Psychology who intend to continue in physiological psychology.

Lectures: two hours per week for two terms.

Laboratory: three hours per week for two terms.

Texts: Gardner: Fundamentals of Neurology, Saunders.

Netter: Nervous System, Ciba.

406 Histology. Half Course.

S. Drummond

An introductory study of the cell and the general tissues. The course is designed to explain in detail the structure and function of the basic tissues and to introduce the various combinations of these in the special tissues of the adult body.

Lectures: two hours per week for the second term.

Laboratory: three hours per week for the second term.

Text: Stiles: Handbook of Histology, McGraw-Hill.

408 Genetics. Half Course.

R. T. Cronin

Theory. A series of lectures designed to explain the principles of heredity and variation, the classical and modern concept of the gene, DNA, RNA and the genetic code, developmental and population genetics, and eugenics.

Laboratory. A selection of experiments to demonstrate the fundamental laws of genetics.

Lectures: two hours per week for the first term.

Laboratory: three hours per week for the first term.

Text: Strickberger: Genetics, Macmillan.

BUSINESS ADMINISTRATION



Associate Professor (Chairman)

Assistant Professors

Lecturer

J. R. Hanrahan

tant Professors W. Bannister, L. J. Boyle, G. B. English,

P. Kawaja, H. B. Ripstein

J. N. Norris

COURSES LEADING T	TO B. COMM. WITH A MAJOR IN BUSINESS ADMINISTRATION		
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Accounting 205 Business 204-215 Business 207 French Philosophy Theology	Business 306 Business 308 Business 301 Business 320 English	Philosophy Theology Business Elective Elective Elective Elective

- 1) Elective courses must be approved by the Department.
- 2) It may be necessary to limit enrolment in some of the above courses.

204 Business Economics. Half Course.

This course consists of three main elements: (1) an explanation of the fundamental theoretical and analytical tools of economics; (2) a review of empirical studies and illustrations of the applications of economic analysis in management; and (3) cases involving actual managerial situations which require the use of analysis.

Prerequisite: Economics 100.

207 Mathematical Analysis For Management. Full Course.

An introduction to differentiation and integration, including applications of the derivative to business problems. Emphasis is placed on probabilistic models, linear stystems and linear programming. The application of these techniques to business is demonstrated.

215 The Canadian Economic Environment. Half Course.

The objective of this course is to provide students with an understanding of the factors that determine the economic environment of business in Canada. It includes a study of income determination theory, monetary and fiscal policy, trade and commercial policy, and the impact of industrialization and foreign investment on the Canadian economy.

301 Finance. Full Course.

A study of the corporate investment in assets and the source of funds available to finance this investment. Emphasis is placed on statement analysis and short term financing. The use of preferred and common stock and long term debt is examined from the viewpoint of the corporation.

Prerequisite: Accounting 101.

304 Organizations and Associations (See Sociology 304).

306 Administrative Practices. Full Course.

The objective of this course is to increase the student's awareness of individual behavior, interpersonal relationships and group dynamics as they influence the organization. The course will include lectures, group discussions and case material.

308 Business Statistics. Full Course.

This course is designed to acquaint the student with statistical methods applicable to business. Curve fitting, variation, correlation and regression are included.

320 Marketing Management. Full Course.

The purpose of this course is to outline the scope of marketing and the nature of the marketing manager's job. Cases are used to show the interrelations among marketing functions and to enable students to learn to think in terms of a coordinated approach in developing a marketing program.

402 Commercial Law, Full Course.

Laws of contracts, sales agency, partnership, company law and negotiable instruments.

410 Administration of the Firm. Half Course. (Not offered in 1969-70)

An introduction to the basis of management through a study of principles and a brief inquiry into the major foundations of management authority and responsibility. The managerial functions of planning, organizing, staffing, direction and control are analyzed and described. Extensive use is made of cases.

411 Business Policy. Half Course.

This course is designed to acquaint fourth year students with major issues of company policy as they confront top management of the enterprise. It is intended to give some experience through analysis of general management cases, in diagnosing problems and formulating policies and programs of action. Departmental approval is required for registration in this course.

417 Operations Analysis. Full Course.

A study of operations research techniques such as queueing theory, inventory theory, linear programming and the Monte Carlo method, and the application of these to marketing, production and administrative problems.

Prerequisite: Business 207.

421 Sales Management. Half Course (Second Term).

This course deals with (1) the principles and policies of sales organization and some typical sales organizational structures; (2) sales operation, including such topics as selecting, training, compensating, supervising and stimulating salesmen; (3) sales planning, including such tasks as determining sales and market potentials, forecasting sales, preparing sales department budgets and establishing territories and quotas; (4) an analysis of sales operation and evaluation of salesmen's productivity and effectiveness.

422 Advertising Management. Half Course (Second Term).

A General Introduction to the field of advertising via lectures and case discussion. The advertising function and how it relates to marketing; History, Function and Purpose; Agency revenues and how they are derived; agency organization and client relationships; campaign planning; copy writing and advertising art; media planning and execution; print and broadcast production; marketing and advertising research; publicity, public relations, sales promotion and merchandising; accounting and cost control; billing methods; the future of advertising and its role in the economy.

430 Investment Management, Half Course (First Term).

This course is designed to develop an understanding of the operations of major financial markets as well as the methods used in the evaluation of the various types of securities. A major portion of the course is devoted to the principles of portfolio management.

440 Advanced Financial Management. Half Course (Second Term).

This course is designed as an extension of Business 301. Advanced techniques of financial analysis are studied and discussion of current financial literature is an integral part of the course. Comprehensive cases are analyzed in detail.

Prerequisite: Business 301.

To qualify for admission to this course a "B" average in Business 301 is required.

450 Marketing Research, Half Course (First Term).

The objective of this course is to train students in the use of marketing research techniques. The place of research in the marketing process, the role of models and the development of measurements are discussed. Emphasis is placed on planning and executing marketing studies and on the applications of marketing research.

470 Production Management. Full Course.

The course is designed to introduce students to the fields of production management. It focuses through the use of case problems on the design and operation of production systems and on quantitative techniques that are relevant to the manufacturing process.

Director (History)

Donald C. Savage

Assistant Professor (Political Science)

David Porter

Assistant Professor (Sociology)

Richard Henry

Instructor (Modern Languages)

Peter Kyulule

The Centre for African Studies was created by the Senate of Loyola College in order to co-ordinate African research and course work on the campus. The Centre offers courses in conjunction with other departments (e.g., History, Political Science) and students will register and receive credit for these courses as History, Sociology, Modern Languages or Political Science courses.

HISTORY

209. Introduction to the History of Africa. Full Course.

D. C. Savage

Africa before the Europeans; Islamic and European conquests; slavery, resistance movements and the rise of nationalism.

Text: Rotberg, Political History of Tropical Africa.

Lectures: 3 hours per week for two terms.

304 Nationalism in Africa. Full Course.

D. C. Savage

Resistance to Europeans, intellectual origins of African nationalism (Blyden, Du Bois, Garvey, Padmore, Césaire, Senghor), independent churches, the rise of nationalist political parties, nationalism after independence.

Texts: Kohn and Sokolsky, African Nationalism in the 20th Century; Hodgkin, Nationalism in Colonial Africa; Sithole, African Nationalism.

Seminar: 2 hours per week.

POLITICAL SCIENCE

757H The Stages of Political Development. Full Course.

David Porter

An analysis of factors causing political systems to change. Examination of the traits of each of four stages from national unification to the politics of abundance.

Text: Organski, The Stages of Political Development.

Lectures: 3 hours per week for two terms.

735 The Politics of Race, Full Course.

David Porter

A comparative study of the racial factor in contemporary politics with special emphasis on Southern Africa, colonial Algeria and the United States.

Texts: Van den Berghe, South Africa: A Study in Conflict; Fanon, The Wretched of the Earth; The Autobiography of Malcolm X.

Lectures: 3 hours per week for two terms.

750 African Government and Politics. Full Course.

David Porter

Colonialism, imperialism and the rise of nationalism, government and politics of the independent African states.

Lectures: 3 hours per week for two terms.

SOCIOLOGY

406 Sociology of Developing Countries.

Richard Henry

An exploration of the ramifications of modernization upon the institutional structures of developing nations. The organizing principle of the course is from the perspective of social change and the following dimensions of modernization will be emphasized: Theoretical Approaches to Social Change, Evolution, Marxism, Motivation, Structural Differentiation, Economic Development, Diffusion and Urbanization; also, aspects of Secondary Modernization will be studied, e.g., Structural Dualism, Power and Social Protest and Revolution.

The class will be small in size: the emphasis will be on student participation.

Prerequisites: Fourth year standing in Sociology or other social-behaviour sciences.

SWAHILI

100 Introduction to Swahili. Full Course.

Peter Kyulule

Emphasis on spoken Swahili. Teaching by direct method and with use of language lab. This course is given in the evening division for both day and evening students.

CANADIAN UNIVERSITY SERVICE OVERSEAS (CUSO)

CUSO is a national organization which supplies volunteer manpower to developing countries. There are presently programmes in Africa, Asia, and Latin America. Interested students should attempt to include in their programme courses relevant to the area to which they might wish to go. Those planning to go to Africa would be advised to take one of the history, political science or sociology courses offered by the Centre, in particular History 209 or Political Science 750, or Sociology 406. Faculty member in charge: J. W. Moore (Political Science).

(Chairman)

Rev. A. Graham, S.J.

Associate Professors

K. Ekler, D. McElcheran, T. Nogrady, M.

Doughty, G. J. Trudel R. H. Zienius

Assistant Professor Sessional Lecturers

M. Baldwin, G. Uihlein

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	CHEMISTRY 211 CHEMISTRY 212 CHEMISTRY 221 CHEMISTRY 222 CHEMISTRY 231 Mathematics 232 Philosophy Theology	CHEMISTRY 313 CHEMISTRY 323 CHEMISTRY 324 CHEMISTRY 332 CHEMISTRY 333 CHEMISTRY 334 English Mathematics 332 Philosophy Physics 205 (theory)	CHEMISTRY 425 CHEMISTRY 436 CHEMISTRY 435 CHEMISTRY 437 CHEMISTRY 437 CHEMISTRY 450 Philosophy or Theology

Courses Insuling to a F	A Committee of Marian Committee		
FIRST YEAR	S.Sc. with a Major in Che SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	CHEMISTRY 212 CHEMISTRY 221 CHEMISTRY 222 CHEMISTRY 231 Mathematics 232 Philosophy Theology	CHEMISTRY 211 CHEMISTRY 313 CHEMISTRY 323 CHEMISTRY 324 CHEMISTRY 334 English Philosophy	CHEMISTRY 332 CHEMISTRY 333 CHEMISTRY 425 CHEMISTRY 426 Philosophy or Theology
Courses leading to a E	3.Sc. in Chemistry		
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	CHEMISTRY 212 CHEMISTRY 221 Mathematics 232 Philosophy Theology	CHEMISTRY 231 CHEMISTRY 222 CHEMISTRY 314 English Philosophy One Elective	CHEMISTRY 313 CHEMISTRY 324 Philosophy or Theology One Elective

101 General Chemistry, Full Course.

M. Doughty, K. Ekler, G. J. Trudel, R. H. Zienius

Principles of Chemistry. Molecular and Atomic theories. Balancing Equations. Valence. Oxidation-reduction. Nature and concentrations of solutions. Chemical Equilibrium, Ionization constants. Solubility product. Common ion effect. pH. Formation and dissolution of precipitates. Complex ions. Theory of acids and bases. Periodic table.

Lectures: 3 hours per week for two terms.

Texts: Sisler, College Chemistry, 2nd ed., Macmillan. Sorum, Introduction to Semimicro Qualitative Analysis. 3rd ed. Prentice-Hall. Schaum, Theory and Problems for Students of College Chemistry, 4th ed., Schaum.

102 General Chemistry, Half Course,

G. J. Trudel, M. Doughty, M. Baldwin, G. Uihlein

An introductory course designed to improve manipulative ability in the laboratory. A first semester of inorganic preparations and volumetric titrations is followed by one devoted entirely to qualitative analysis.

Lab.: 3 hours per week for two terms.

Text: Sorum, Semimicro Qualitative Analysis, 4th Ed. Prentice Hall.

211 Inorganic Chemistry and Valence Theory. Half Course.

K. Ekler

Atomic and Molecular Structure. Valence. Electro-negativity. Bond angles and lengths. Coordination chemistry. Chemical periodicity.

Lectures: one hour per week for two terms.

212 Elementary Inorganic Quantitative Analysis. Full Course.

G. J. Trudel, R. H. Zienius

Theoretical aspects of gravimetric and volumetric analysis. Acid-base and oxidation-reduction titrations. Determination of ores by volumetric methods. Theory of precipitation and complex formation analysis.

Prerequisite: Chemistry 101.

Lectures: 1 hour per week for two terms.

Lab.: 3 hours per week for two terms.

Text: Kolthoff and Sandell, Quantitative Inorganic Analysis, Macmillan.

221 Organic Chemistry Theory. Full Course.

VI. Doughty

Introductory course in nomenclature, type reactions and synthesis of aliphatic, alicyclic and aromatic hydrocarbons and their derivatives. Theoretical aspects including resonance, orbital theory and simpler reaction mechanisms are introduced. Prerequisite: Chemistry 101.

Lectures: 3 hours per week for two terms.

Texts: English and Cassidy, Principles of Organic Chemistry, McGraw-Hill. Werner Herz, The Shape of Carbon Compounds, Benjamin.

222 Organic Chemistry Laboratory. Half Course.

R. H. Zienius, A. Graham, M. Baldwin

A systematic preparation of simpler organic compounds; the theory of fundamen-

tal techniques such as steam distillation; filtration; the determination of physical constants. To be taken in conjunction with Chemistry 221.

Prerequisite: Chemistry 102.

Lab.: 3 hours per week for two terms.

Text: Cason and Rapoport, Basic Experimental Organic Chemistry, Prentice-Hall.

231 Introductory Physical Chemistry. Full Course.

R. H. Zienius

The gaseous state and elementary kinetic theory; liquid state; crystalline state; an introduction to the first and second laws of chemical thermodynamics; thermochemistry; free energy and activity; thermodynamics of solutions; homogeneous equilibrium and kinetics; Phase rule; electrochemical phenomema; introductory theory of atomic and molecular spectra and structure. Problems form an integral part of this course.

Lectures: 3 hours per week for two terms.

Text: Maron and Prutton, Principles of Physical Chemistry, 4th Ed., Macmillan.

313 Instrumental Analysis. Full Course.

K. Ekler and Staff

A study of modern instrumental methods in inorganic and organic analysis. Electro-chemical absorption, optical and radio-chemical methods, mass spectrometry, chromatography, NMR and X-ray diffraction are discussed.

Prerequisite: Chemistry 212, 221, 231. Lectures: 2 hours per week, first semester. Lab.: 3 hours per week, second semester.

314 Industrial Chemistry. Full Course.

R. H. Zienius

Brief history of the chemical industry in Canada; outline of how industrial processes are developed; physical equipment of a chemical plant; calculation of material and energy changes in a plant; description of some of the more important processes now in use, as exemplified in the petroleum, petrochemicals, plastics, fibres, fertilizers, synthetic rubber, pharmaceutical, and wood chemical industries; pollution. This course includes two plant tours.

Prerequisite: Chemistry 221.

Lectures: 2 hours per week for two terms.

Texts: R. N. Shreve, Chemical Process Industries, McGraw-Hill. J. A. Kent, Reigel's Industrial Chemistry, Reinhold.

323 Organic Chemistry Theory. Full Course.

T. Nogrady, G. J. Trudel

Selected topics of polymer and natural products chemistry, including carbohydrates, proteins, terpenes and steroids, heterocyclics and alkaloids. Reaction mechanisms and stereochemical aspects are treated extensively. The biological significance of many compounds is stressed.

Prerequisite: Chemistry 221.

Lectures: 2 hours per week for two terms.

Reference: Fieser and Fieser: Topics in Organic Chemistry, Reinhold. Roberts and Caserio: Basic Principles of Organic Chemistry, Benjamin.

324 Identification of Organic Compounds. Full Course. M. Doughty, A. Graham

Theory and practice of organic qualitative analysis; most of the laboratory time is given to the identification of unknown compounds and the separation and identification of a simple mixture.

Prerequisite: Chemistry 222.

Lectures: 1 hour per week for two terms.

Lab.: 3 hours per week for two terms.

Text: Shriner, Fuson and Curtin, The Systematic Identification of Organic Compounds, Wiley.

332 Chemical Thermodynamics. Half Course.

D. McElcheran

As a second course of Thermodynamics. The first and second laws are expanded axiomatically leading to a thorough treatment of activity relationships; Substantial application is made in the behaviour of gases, solutions and chemical equilibrium. Further applications arise in the subsequent Chemistry 333.

Lectures: 3 hours per week, first term.

333 Advanced Physical Chemistry, Half Course,

D. McElcheran

Succeeds chemistry 332 with analysis of the states of matter based largely on phase rule. The elements of classical statistical mechanics. Surface chemistry and the colloidal state. Reaction kinetics emphasizing catalysis.

334 Physical Chemistry Laboratory. Half Course.

D. McElcheran

Lab.: 4 hours per week, first term.

425 Organic Chemistry Theory. Full Course.

T. Nogrady

An advanced study of physical organic chemistry and stereochemistry. The electron theory of reaction mechanisms such as nucleophilic aliphatic substitution, elimination and addition reactions, aromatic substitution, free radical mechanisms, are discussed in depth. Modern concepts of stereochemistry and conformational analysis are also covered.

Prerequisite: Chemistry 323.

Lectures: 2 hours per week for two terms.

Texts: R. Breslow: Organic Reaction Mechanisms, Benjamin. K. Mislow: Introduction to Stereochemistry, Benjamin. Reference: Smith and Cristol: Organic Chemistry, Reinhold.

426 Organic Preparation Laboratory I. Half Course.

. Nogrady

T. Nogrady

The student performs modern multi-step synthesis and is expected to become proficient in such techniques as vacuum distillation, catalytic hydrogenation, high pressure reactions and the judicious use of instrumental methods like IR and NMR spectroscopy and chromatographic methods.

Prerequisite: Chemistry 222, 324.

Lab.: 6 hours per week for one term.

Text: Fieser: Organic Experiments, Raytheon.

427 Organic Preparation Laboratory II. Half Course.

A confirmation of Chemistry 426 stressing modern techniques and syntheses requiring consultation of the research literature. Students taking Chemistry 450 will not take Chemistry 427.

Prerequisite: Chemistry 222, 324, 426.

Lab.: 6 hours per week for one term.

Text: Fieser: Organic Experiments, Raytheon.

435 Advanced Physical Chemistry Laboratory. Half Course. D. McElcheran A continuation of Chemistry 333, but fewer and more demanding experiments.

Prerequisite: Chemistry 333.

Lab.: 4 hours per week for one term.

436 Electrochemistry. Half Course.

K. Ekler

Electrolytic conduction and electrolysis: Faraday's laws; specific and equivalent conductance and measurement of conductance; mobility and transport number; theory of strong electrolytes; thermodynamics of cells; electrode potentials; concentration cells; liquid junction potentials; overvoltage and polarization phenomena. Prerequisite: Chemistry 332, 334.

Lectures: 1 hour per week for 2 terms.

437 a) Quantum Chemistry, b) Kinetics. Full Course.

D. McElcheran

a) Mathematical foundation; elements of: Vectors, complex variable, matrices, group theory. The Schrödinger Equation and the particle-in-the-box, harmonic oscillator, rigid rotator and H-atom, problems. Perturbation theory applied to: atoms-atomic spectra. Molecules-v.b.; m.o., ligand-field theory, molecular spectra.

b) Statistical Mechanics and Chemical Kinetics. Quantum statistics—selection of thermodynamic problems. Gas phase kinetics. Absolute rate theory, unimolecular reactions, free radical mechanisms, chain mechanisms. Individual tutorials in problem solving approximately once a month.

Lectures: 3 hours per week for two terms.

450 Senior Thesis. Half Course.

Staff

The Department will make available to selected students a senior thesis in Organic or Physical Chemistry to be done in the second term.

Lab.: 6 hours per week in the second term.

CLASSICS

Assistant Professors

J. E. Lempkowski (Chairman), D. Brown,

J. Jope, Mrs. B. Wardy Mrs. E. Preston

Lecturer

The requirement in Classics for Arts students may be fulfilled in the following ways:

a) Classics 102, 202;

b) Classics 111 and 112, or 112 and 212;

c) Classics 121, 221.

Note: All students in Greek and Latin are required to provide themselves with dictionaries.

Courses leading to an	Honours B.A. in Classic	:s	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Greek Latin Latin French Philosophy Elective	Greek Greek Latin Ancient History Philosophy Theology	Greek Honours Tutorial Latin Honours Tutorial Prose Composition Theology Elective
Courses Leading to a	B.A. with a Major in Cla	ssics	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Classics Classics English French Philosophy Theology	Classics Classics Classics Theology Two Electives	Classics Classics Philosophy Two Electives

The Department of Classics offers two distinct types of courses. Courses in Classical Civilization (Classics in Translation) are designed to provide a basic acquaintance with Classical literature and civilization for non-classicists. They demand no knowledge of Latin or Greek. Courses in Latin and Greek are intended for Classics honours students and majors and others who wish to study Classical literature in the original languages in greater depth.

HONOURS COURSES, 1969-70

212H Greek Literature. Full Course.

J. E. Lempkowski

A survey of Greek prose, with intensive study of selections from major authors. Lectures: 3 hours per week for two terms.

213H Plato: The Republic. Full Course.

J. Jope

Lectures: 3 hours per week for two terms.

302H Lucretius. Full Course.

J. Jope

Lectures: 3 hours per week for two terms.

313H Homer. Full Course.

D. Brown

Extensive readings from the *Iliad* and *Odyssey* in Greek; both works in their entirety in English.

Lectures: 3 hours per week for two terms.

351H Alexander the Great and the Hellenistic Age.

D. Brown

The life, times, conquests and ideals of Alexander the Great. The Antigonid, Seleucid and Ptolemaic Empires. The Hellenization of the ancient world. Lectures: 3 hours per week for two terms.

404H Cicero, Full Course.

J. E. Lempkowski

Intensive study of the De Oratore and De Officiis.

Lectures: 3 hours per week for two terms.

GENERAL AND MAJOR COURSES

102 Latin Literature, Full Course.

E. Preston, B. Wardy

Cicero's Pro Archia, selections from Catullus and the Odes of Horace.

Prerequisite: Junior Matriculation Latin or its equivalent.

Lectures: 3 hours per week for two terms.

111 Elementary Greek. Full Course.

Staff

A course for those with no previous knowledge of Greek.

Lectures: 3 hours per week for two terms.

112 Intermediate Greek, Full Course.

Staf

Further work toward the acquisition of a reading command of the language. Plato's *Apology* and *Crito*.

Prerequisite: Classics 111.

Lectures: 3 hours per week for two terms.

202 Latin Literature. Full Course.

E. Preston, B. Wardy

Cicero's Pro Lege Manilia, and Books 2, 4 and 6 of the Aeneid.

Prerequisite: Classics 102.

Lectures: 3 hours per week for two terms.

212 Greek Literature. Full Course.

(Not offered in 1969-70)

Demosthenes' Philippics and Euripides' Alcestis.

Prerequisite: Classics 112.

Lectures: 3 hours per week for two terms.

213 Plato: The Republic. Full Course.

J. Jope

Prerequisite: Classics 112.

Lectures: 3 hours per week for two terms.

302 Lucretius, Full Course.

J. Jope

Prerequisite: Classics 202.

Lectures: 3 hours per week for two terms.

303 Livy and Tacitus. Full Course.

(Not offered in 1969-70)

Extensive readings from Livy, Books 21-30, and the Annales of Tacitus, with particular attention to the Latinity peculiar to each historian.

Prerequisite: Classics 202.

Lectures: 3 hours per week for two terms.

312 Herodotus and the Lyric Poets. Full Course.

(Not offered in 1969-70)

Prerequisite: Classics 212.

Lectures: 3 hours per week for two terms.

313 Homer, Full Course.

D. Brown

Extensive readings from the two epics in Greek; both works in their entirety in English.

Prerequisite: Classics 212.

Lectures: 3 hours per week for two terms.

330 The Ancient World. Full Course.

D. Brown

After a preliminary consideration of the early civilizations of Mesopotamia, Egypt, India and China, the course concentrates on the history of ancient Greece and Rome, with special attention to those institutions, theories and discoveries that have most influenced our own times.

Lectures: 3 hours per week for two terms.

402 Roman Comedy. Full Course.

(Not offered in 1969-70)

Prerequisite: Classics 202.

Lectures: 3 hours per week for two terms.

403 Roman Satire, Full Course.

(Not offered in 1969-70)

Prerequisite: Classics 202.

Lectures: 3 hours per week for two terms.

404 Cicero. Full Course.

J. E. Lempkowski

Careful examination of selections from the oratorical and philosophical works.

Prerequisite: Classics 202.

Lectures: 3 hours per week for two terms.

412 Greek Tragedy. Full Course.

(Not offered in 1969-70)

Aeschylus' Agamemnon, Sophocles' Oedipus Rex, Euripides' Hippolytus.

Prerequisite: Classics 312.

Lectures: 3 hours per week for two terms.

CLASSICAL CIVILIZATION

121 Full Course.

D. Brown and J. E. Lempkowski

A. The Classical Epic.

A study of the heroic character in the epics of Homer, Apollonius of Rhodes, and Vergil.

B. The Greek and Roman Historians.

An examination of the ancient historians' estimate of man's moral and social behavior, and the role which he plays in the developments of his time.

Lectures: 3 hours per week for two terms.

221 Full Course.

J. Jope, J. E. Lempkowski

A. Greek Drama.

A study of selected plays by Aeschylus, Sophocles, Euripides, and Aristophanes.

B. Roman Satire.

The origin and development of the literary form which the Romans considered to be particularly their own. The Satires of Horace and Juvenal, Petronius' Satyricon.

Lectures: 3 hours per week for two terms.

421 Aristotle. Full Course.

J. Jope

A study of the philosopher's concepts, theories and problems as they are presented and developed in the texts of his own works.

Lectures: 3 hours per week for two terms.

COMMUNICATION ARTS



Associate Professor (Chairman) Rev. J. E. O'Brien, S.J. Professor J. Buell Resident Artist and Associate Professor C. F. Gagnon Associate Professor M. Malik Assistant Professors Rev. M. Gervais, S.J., G. Valaskakis Assistant Professor (Theology) J. Hofbeck Assistant Professor (Psychology) H. W. Ladd Assistant Professor (Sociology) T. McPhail Special Lecturer J. Max Lecturer and Project Co-ordinator S. Schouten Lecturer (Sociology) L. Snider Instructor B. Brenn Technical Supervisor R. Dolinsky Technicians G. Robitaille, V. Surio

OBJECTIVES OF THE DEPARTMENT

The Department bases its work in communication theory and research, cinema, radio, and television on a solid foundation in the liberal arts.

The curriculum is intended to develop in students a scholarly and creative approach to mass media. It is designed:

- 1. for students who intend to continue graduate studies in communication;
- 2. for students who intend to make a career in the public arts as writers, critics, communication consultants, directors, and performers;
- for students who wish to enter the teaching profession as specialists in film and television education;
- for students who intend to enter the media industries, the media professions, and the public arts in the areas of publicity, promotion, advertising, and public relations.

FACILITIES

The Department has one professionally equipped television-film studio with 3 Plumbicon cameras, telecine chain, and video tape recorder, 2 professionally equipped radio studios and control rooms, 2 film editing rooms, 1 darkroom, 1 multi-media room and 1 graphics room.

COURSE REQUIREMENTS FOR A B.A. WITH A MAJOR IN **COMMUNICATION ARTS GENERAL REQUIREMENTS:**

1st year: Discontinued-See Collegial Program.

2nd year: Classics; English; French; Philosophy; ONE elective; Communication

Arts 200 and 205.

3rd year: Philosophy; ONE elective; Three Communication Arts.

4th year: Communication Arts 450 or Theology; ONE elective; Three Com-

munication Arts.

SPECIFIC REQUIREMENTS:

7 full courses in the Department.

A student may be invited, after demonstrating his competence and creative ability, to enroll in an Experimental Workshop (Course 460 or 470). The workshop is taken in addition to the seven full courses required for the major.

Required courses: Nos. 200, 205, 300.

Required labs.: The equivalent of two full course credits to be chosen from the following options: Nos. 260, 270, 275, 360, 365, 370, 375.

Electives in the Department: Three full course credits to be chosen after consultation with the Department.

200 Explorations in Communication. Half Course. G. Valaskakis and Staff

An introduction to experiences in total communication and to a probe of these experiences, v.g., architecture, art, drama, film, music, advertising, computers, etc., - the course aims at a heightened awareness and understanding of total communication in present-day environments.

2 hours per week for two terms.

205 Communication Analysis. Half Course.

M. Malik

General and detailed analysis of various information complexes, v.g., exhibitions, theatres, cinema performances, museums, galleries, countrysides, city streets, highways, department stores, etc., from the viewpoint of the information aids used to influence the perception of visitors - light, space, sound, pictures, words, and exhibits. Individual student projects will be assigned.

2 hours per week for two terms.

260 Photography as Visual Language. Half Course. Lab.

J. Max

The objective of this course is to help the student develop a personal visual language and to make it possible for him to translate his experience of a particular aspect of life into an image of it. The student explores his subject, himself and the relationships, oppositions, tensions and meanings which this conscious and in varying degrees unconscious exploration takes him on. Individual projects will be assigned.

3 hours per week for one term.

270 Fundamentals of Radio Production I. Half Course. Lab.

B. Brenn

This course is designed to give students (1) a working knowledge of all the basic elements involved in the production of a radio program, (2) practical creative experience in the production of the simpler formats for radio, and (3) practice in voice control and basic announcing techniques.

3 hours per week for one term.

275 Fundamentals of Radio Production II. Half Course, Lab.

B. Brenn

A continuation of Part I, the course explores the creative possibilities inherent in fairly complicated programming and experiments with sportscasts, words and music shows, magazine shows, classical music programs, documentaries and dramas. All programs are recorded for playback and discussion. Prerequisite: Course 270.

3 hours per week for one term.

300 Mass Media and Cultural Forms, Full Course.

J. Buell

In general, this course is a study of media and modern civilization, and it concentrates on the communicational and art forms of film, radio, television, and print. It examines, among other things: the evolution of the traditional fictional and rhetorical arts into their mass media forms, the actual forms and formats necessitated by the mass media, the media theories of Marshall McLuhan, the function of image and symbol in communication, the entertainment aspect of mass reception, and the current practices, problems, and possible developments in these fields. 3 hours per week for two terms.

305 Mass Society. Half Course. Second Term.

L. Snider

Collective behavior including fads, fashions, crazes, mobs, riots, social movements and publics are analyzed and explained within a social-psychological framework. The origins and dynamics, internal and external, of social action and pressure groups are discussed. Mass communications, in terms of form and content are studied as factors in the various forms of collective behavior. The implications of mass leisure and population qualities such as age, sex, racial and religious factors in urban centers are appraised.

3 hours per week for one term.

310 The Basics of Fictional Script-Writing. Half Course.

J. Buell

This course is meant for talented students who want to start learning the craft of creating screenplays. It is concerned primarily with the invention and proper development of material that forms the substance of fictional films (commonly referred to as "features", as distinguished from documentary, instructional, and poetic films). The course deals with the fundamentals of film-narrative, story-line, dialogue, characterization, kinds of action, pacing, and timing. The student will at the same time study films and film sources (stories, novels, etc.) from the viewpoint of script-writing. A knowledge of the film medium is essential (the problems of direction, camera, editing), but not to the extent of being proficient in production. A student applying for this course must give evidence of talent by submitting examples of his or her fictional work before August 1st.

2 hours per week for two terms.

320 Communication by Speech. Full Course.

G. Valaskakis

A survey course in oral communication, this course is designed to give the student knowledge of and experience in speech situations with radio, television, and "live" audiences. Students will analyze, prepare, and deliver speeches of various types and will participate in interviews, group discussions, and dramatic readings. Course includes some study of voice and movement.

3 hours per week for two terms.

325 Small Group Interaction. First Term.

T. McPhail

An introduction to structures and processes of the internal dynamics of small groups and their relationship to the individual and larger social systems. On the basis of field and laboratory research the impact of small groups will be examined with emphasis on cohesion, norms, leadership, communications and participation. Prerequisite: Sociology 100 or Sociology 201.

330 History of Cinematic Art I: The Silent Cinema. Half Course, First Term.

M. Gervais

A history of the Silent Cinema in its feature films, tracing the growth of the art form from its earliest days through the great works (v.g., Griffith, Stroheim, the American comics, Chaplin, the Scandinavian mystics, the German expressionists and realists, the Russian Revolutionaries, etc.). The over-all human dimension of these artistic human statements will be examined as will the more strictly artistic preoccupations of their creators.

3 hours per week - screening, discussion. 1 hour per week - analysis, discussion, etc., for one term

335 History of Cinematic Art II: The Talkies Until 1945. Half Course. Second Term.

M. Gervais

A history of the feature talkies, tracing the development of the art form and concentrating on the classics and leading genres, stressing these films in their over-all human dimensions and in their more strictly aesthetic perspectives (e.g., Clair, Renoir, Cocteau, Carné; the Hollywood Western, gangster, and musical films; John Ford, Eisenstein, Von Sternberg, Chaplin, Dreyer, etc.).

3 hours per week - screening, discussion. 1 hour per week - analysis, discussion, etc., for one term.

340 Documentary Film, Half Course, First Term.

M. Malik

A survey of the documentary film field, the course will examine the various styles of documentaries, v.g., the Romantic, Realistic, Impressionistic, Scientific, Biographical, Ethnographical, and Sociological. These styles will be examined in detail in the works of Flaherty, Grierson, Capra, Wright, Kroiter, and Thompson. Individual student projects will be assigned.

Screenings: every second week for one term. Consultation hours with Professor to be arranged.

355 Communication Research. Half Course. Second Term.

M. Malik

An examination of the aids and practical research methods for information chains. Limited experiments will be conducted on information complexes, v.g., 3D complexes - exhibition spaces, museums, galleries - 2D complexes - cinema, photography, the painted picture - metacomplexes and internal information spaces. Individual and group projects will be assigned.

Prerequisite: Course 205.

3 hours per week for one term.

360 Elementary Film Making I. Half Course. Lab.

C. Gagnon

An introduction to film making, this course stresses familiarization with equipment, sensual-visual perception, and the basic construction of a film in terms of visual and literary continuity.

Prerequisite: Course 260 or consent of the instructor.

3 hours per week for one term.

365 Elementary Film Making II. Half Course. Lab.

C. Gagnon

A study of the motion picture camera and its uses, of lenses and of creative focusing, the course examines in detail visual continuity and sensual and psychological perception.

Prerequisite: Course 360 or consent of the instructor.

3 hours per week for one term.

370 Fundamentals of Television Production I. Half Course, Lab. J. E. O'Brien

After introducing students to the use of video, audio, and lighting boards, the course provides opportunities for experimentation in the scripting, programming, and producing of the simpler programme formats from rehearsal through final production. All programs are videotaped for playback and discussion.

3 hours per week for one term.

375 Fundamentals of Television Production II. Half Course. Lab. J. E. O'Brien

A continuation of Part I, this course explores the creative possibilities inherent in the television medium and the better original works of students are produced. All programs are videotaped for playback and discussion.

Prerequisite: Course 370 or consent of the instructor.

3 hours per week for one term.

400 Mass Communication. Half Course. First Term.

McPhail

The focus of this course will be on the nature of communication as a social process, the relative influence and effect of person to person and mass media to person communication in relation to attitude formation and change, behavior, values and society in general. Particular emphasis is placed on the capacity of mass media to generate social action under varying social conditions. Recent empirical studies are examined.

3 hours per week for one term.

405 Psychology of Communication. Half Course. First Term. H. V. Ladd Offered in Evening Division only.

The course is focused on the development of language and the use of language as a means of communication and the development of language as a symbolic system. Self-communication and inter-personal communication are the major areas to be considered.

3 hours per week for one term.

410 Writing for Film and Television. Full Course.

J. Buell

A teaching-workshop to enable talented students to prepare and create material in script form for film and television. The material will vary in content; drama, documentary, instruction - original and adapted; and it will go from shorter forms to the half-hour script and longer. The submission of two half-hour scripts, or the equivalent in the judgment of the professor, will constitute the year's examination. N.B.: Students taking this course must have a knowledge of these media, or must concurrently be taking production courses in them.

3 hours per week for two terms.

415 Seminar in Advertising and Public Relations.

J. E. O'Brien

- (a) A probe of advertising, the seminar will examine among other things the social and economic effects of advertising, the principles of effective copy, layout, and design, and the rationale behind present- day media strategies.
- (b) A study of the nature, organization, and function of the corporate image for various sectors of the public, as clarified by case analysis of present-day industries.

Individual and group projects will be assigned.

3 hours per week for two terms.

420 Psychology of Propaganda. Half Course.

S. Schouten

The course is based on the assumption that today propaganda envelops man with its orchestration of communication tools and psychological techniques. The history and character of propaganda will be presented as an introduction to an analysis of its permeation into technological society. Under discussion will be such phenomena as mass hypnosis, the propaganda ethic, information warfare, national character, the formation of political opinions and attitudes, statistical persuasion and subliminal communication. Points of reference will include—war information systems, public relations, royal commissions, advertizing, group therapy sessions, market research, government cultural and social programs, political campaigns and animation sociale projects.

2 hours per week for two terms.

430 The Contemporary Cinema. Half Course. Second Term.

M. Gervais

A study of the great feature film artists since 1945 (e.g., Rossellini, de Sica, Fellini, Antonioni, Bergman, Hitchcock, Hawks, Bunuel, the Nouvelle Vague, the Czechs, Poles, Russians, Cinéma-vérité, Lester, the Japanese, etc.) - from the artistic and the over-all cultural point of view.

3 hours per week - screening, discussion. 1 hour per week - analysis, discussion, etc., for one term.

435 Film Ideas. Half Course. First Term.

M. Gervais

This course will center on problems in film criticism, film theory and film aesthetics. Films highlighting certain aesthetic positions will be screened (e.g., Neo-realism, Eisenstein, Fritz Lang, the New Cinema). The course includes an analysis of critical reactions to current films and a study of the writings and theories of major artists and critics.

Prerequisite: Course 430 or consent of the instructor.

3 hours per week for one term.

440 Experimental Cinema: Animation. Half Course. Summer Session, 1969.

A study (1) of experimental films from the beginnings of the cinema through the avant-garde of the late '20's into today's manifestations (v.g., Underground, EXPO, Industrial films) and (2) of animated films, the great cartoons, the masters (v.g., Disney, etc.).

Seminar in Contemporary Mass Media and Revelation. Full Course.

J. Hofbeck

The most fundamental problems of man will be explored through a systematic encounter of contemporary mass media and revelation. The approach will be mainly creative with individual and group projects. This encounter should lead to a more explicit awareness of various levels of meaning to be found in contemporary mass media.

3 hours per week for two terms.

455 Communication Programming. Half Course. Second Term.

M. Malik

An advanced seminar for students interested primarily in Communication theory and research. Individual projects will be assigned on the analysis of information, chains, the analysis of performing conditions, the analysis of receiver responses, the design of programs, the realization of pilot programs and the evaluation or measurement of the efficiency of these programs.

Prerequisite: Course 355.

3 hours per week for one term.

460 Experimental Workshop in Motion Pictures.

C. F. Gagnon

Prerequisite: Courses 360, 365.

Students who have shown more than average promise will be invited to join the workshop. This course is taken in addition to the seven required courses for majors.

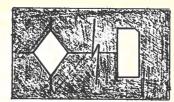
3 hours per week for two terms.

470 Experimental Workshop in Television.

J. E. O'Brien

Prerequisite: Courses 370, 375.

Students who have shown more than average promise will be invited to join the workshop. This course is taken in addition to the seven required courses for majors. 3 hours per week for two terms.



Assistant Professor Special Lecturers

R. Thiry
J. Wall, J. C. Low, P. Fortin, Mrs. M.
Woodruff

010 Fortran Programming.

Offered to all students. The course includes basic FORTRAN programming techniques and sufficient card handling to enable the student to run his own programs on the IBM 1620. The course will be offered at least twice during the year. Noncredit.

Lectures: 1 hour per week for 8 weeks.

011 Fortran Programming.

Offered to all Commerce students. Follows the general course format of 010 FORTRAN PROGRAMMING with emphasis on problems of mathematics of finance, statistics, etc. Non-credit.

Lectures: 1 hour per week for 8 weeks.

012 Fortran IV Programming.

Offered to all students. Designed to acquaint the novice programmer with FORTRAN IV techniques. Use of Datacom terminals and Univac 1108 for processing problems. To be offered once each term. Non-credit.

Prerequisite: Computer Science 010 or 011.

Lectures: 1 hour per week for 5 weeks.

013 Cobol Programming.

Fundamentals of the most common business oriented programming language. Open to Commerce students. Problems solved using Univac 1108. Non-credit. Lectures: 2 hours per week for 10 weeks.

015 Machine Language and SPS Programming.

The course is offered to all students. The elements of 1620 machine language and SPS programming are introduced. Hands on experience is emphasized.

Lectures: one hour per week for 13 weeks.

Prerequisite: 010 or 011 programming.

105 Introduction to Computing and Programming. Full Course.

Offered to all students. An introduction to computing, encompassing its history, numbering systems, flow charting and programming techniques. A detailed study of FORTRAN programming with problem solving on the IBM 1620 and 360/50 Datacom terminals.

Lectures: 2 hours per week for 2 terms.

201 Fortran Programming and Numerical Analysis. Full Course.

A detailed study of fundamentals of digital computers and related machinery. Binary numbers, floating point arithmetic, flow charting, simple machine language instructions, automatic coding in FORTRAN, assemblers, compilers, etc. Numerical methods of interpolation, solution of polynomial equations and simultaneous equations, approximations, matrix manipulation, Monte Carlo techniques. Student use of the IBM 1620 and Univac 1108 emphasized.

Lectures: two hours per week for two terms.

Prerequisites: Mathematics 205 (First course in Calculus).

305 Numerical Analysis and Fortran Programming for Engineers. Half Course, one term.

Offered as Engineering 133.

Science students interested in further electives in Computer Science should consider the following courses being offered by the Faculty of Engineering. Approval from the Dean of Engineering is required prior to registering in any of these courses. Refer to the Engineering section of this calendar for course descriptions.

Engineering 133 - Numerical Analysis and Computation Methods. Half course, one term.

Lectures: 2 hours per week, one term.

Computer Lab.: 2 hours per week, one term.

Engineering 154 - Introduction to Digital Computer Engineering. Full course.

Lectures: 2 hours per week, both terms.

Engineering 164 - Digital Computer Applications in Engineering. Full

Lectures: 2 hours per week, both terms.

Lab.: 3 hours per week.

Engineering 684 - Switching Circuits. Half Course, one term.

Lectures: 2 hours per week.

Lab.: 3 hours per week.

ECONOMICS



Associate Professor (Chairman) Associate Professor Assistant Professors

S. A. Alvi F. J. Haves

B. Brody, A. K. Datta, D. Herskowitz, A.

G. Lallier, I. J. Masse, C. S. Papadantonakis,

B. Wright

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	ECONOMICS 260 ECONOMICS 271 French Philosophy Theology Elective	ECONOMICS 366 ECONOMICS 304 ECON. Elective Philosophy Theology	ECONOMICS 461 or 464 or 480 ECONOMICS Electives (2) Electives (2)
Courses leading to a E	3.A. with a Major in Econom	ics	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Classics 112 or 202 or 212 or 221 ECONOMICS 210 ECONOMICS 210 eCONOMICS 221 or 202 French Philosophy Theology	ECONOMICS 306 ECONOMICS 304 Philosophy Theology English	ECONOMICS Electives (3) Electives (2)
Courses leading to an	Honours B. Comm. in Econ	omics.	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	ECONOMICS 260 ECONOMICS 271 French Philosophy Electives (2)	ECONOMICS 366 ECONOMICS 304 ECON. Elective Philosophy Theology	economics 461 or 464 or 480 economics Electives (2) Electives (2)
Courses leading to a E	B. Comm. with a Major in Ed	onomics.	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Accounting 205 ECONOMICS 210 ECONOMICS 221 or 202 French Philosophy Elective	ECONOMICS 306 ECONOMICS 304 Philosophy Theology English	ECONOMICS Electives (3) Electives (2)

NOTE: The Economics Department may permit a third year student to take one additional approved course, if a 70% average and a record clear of supplementals, repeat courses, etc., has been maintained in the preceding two years.

100 Principles of Economics. Full Course.

Staff

A survey of the existing economic order, with particular emphasis on the North American Economy. Concentration is on explaining the operation of the price system as it regulates production, distribution, and consumption, and as it in turn is modified and influenced by private organization and government policy. Consideration is also given to the determination of aggregate economic activity. The main areas studied include: the monetary and banking systems in the United States and Canada; the composition and fluctuations of national income; and the major conditions of economic growth; all as influenced by monetary, fiscal and other policies. Lectures: 3 hours per week for two terms.

202 Economic History, Full Course.

Staff

An analysis of the development of Western Europe, Canada and the United States. Lectures: 3 hours per week for two terms.

210 Intermediate Economic Theory. Full Course.

B. Brody

In this course consideration will be given to such topics as: theory and measurement of demand; production functions; cost analysis; price and output policy under various market conditions; factor pricing; income and employment theory.

Lectures: 3 hours per week for two terms.

221 Economic Method. Full Course.

A. Datta

An introductory application of mathematics to economic analysis. Topics: analytic geometry; differential and integral calculus; differential and difference equations; elements of linear algebra. Selected topics of economic applications will be covered throughout the course.

Lectures: 3 hours per week for two terms.

260 Intermediate Economic Theory. (Honours). Full Course.

S. Alvi

Lectures: 3 hours per week for two terms.

271 Economic Method. (Honours). Full Course.

A. Datta

Lectures: 3 hours per week for two terms.

303 Theories and Processes of Economic Growth and Development. Full Course.

S. Alvi

A consideration of various contributions by economists and others to an understanding of how societies grow and undergo institutional change. The course also includes a study of the problem of accelerating economic growth, with emphasis on selected developing nations of the present time, an analysis of the process of capital formation, the role of the state (in different politico-economic systems), the role of external assistance in economic development, and the economics of investment decisions. Emphasis is also given to the interaction of the cultural change and economic development.

Lectures: 3 hours per week for two terms.

304 Applied Statistics, Full Course.

D. Herskowitz and I. Masse

The application of statistical methods to economic problems, including probability, testing hypotheses, time series, correlation and linear regression analysis.

Lectures: 3 hours per week for two terms.

305 Economic Fluctuations. Full Course. (Not offered in 1969-70) B. Wright

A review of some theories of courses of Economic Fluctuations. Discussion of the Economic climate and of stabilization policies.

Lectures: 3 hours per week for two terms.

306 Money, Banking, and Income Theory. Full Course. I. Masse & F. Haves The functions of money, money and prices; the evolution and kinds of money; the value of money, the supply of money, monetary and banking developments in Canada, the United States and the United Kingdom; the determinants of national income; the multiplier and acceleration principles, monetary and fiscal policy. Lectures: 3 hours per week for two terms.

333 Comparative Economic Systems. Full Course.

A. Lallier

The evolution of economic systems is discussed and evaluated in terms of modern economic theory, and from the point of view of economic efficiency and develop-

Lectures: 3 hours per week for two terms.

348 Labour: Economics and Relations. Full Course.

B. Brody

Origin and development of Canadian, U.S. Labour organizations; contemporary trade union problems; labour laws (U.S., Canada, Quebec) and public policies; collective bargaining and strikes. Determinants of labour demand, labour supply; wage and employment theory; unemployment; manpower policy, income policy. Emphasis is placed on the Canadian context.

Lectures: 3 hours per week for two terms.

366 Monetary and Income Theory. (Honours). Full Course.

B. Wright Income determination in a money economy. Some problems, including economic

stability, inflation, balance of payments and international liquidity. Lectures: 3 hours per week for two terms.

407 International Trade. Full Course.

C. Papadantonakis

Historical and economic background of international trade; the theory of international trade; balance of payments; international capital movements; foreign exchange; international commercial policies; international organization dealing with commercial theory.

Lectures: 3 hours per week for two terms.

435 Public Finance. Full Course. (Not offered in 1969-70)

A study of the principals and practices of public finance, with special reference to North America.

Lectures: 3 hours per week for two terms.

437 Canadian Economic Policy. Full Course.

F. Hayes

This course is devoted to examining economic policy in a number of selected areas. Lectures: 3 hours per week for two terms.

461 History of Economic Thought. (Honours). Full Course.

A. Lallier

A critical review of economic thought since Plato and Aristotle.

Lectures: 3 hours per week for two terms.

464 Operations Analysis and Economic Theory. (Honours). Full Course.

Staff

Application of mathematical techniques to economic analysis. Topics will include the calculus, theory of determinants, programming, etc., and their application to selected areas in Economic Theory; Production and inventory decisions; linear programming; transportation problems; queues; input-output analysis, game theory, econometric macromodels.

Lectures: 3 hours per week for two terms.

480 Macro-Economic Analysis. (Honours). Full Course.

Staff

A critical study of selected topics in Aggregative Economic Analysis. Lectures: 3 hours per week for two terms.

JOINT MAJOR IN ECONOMICS & POLITICAL SCIENCE

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Economics 210 (1) Pol. Sc. Classics French Economics 221 (2) or Elective Philosophy	Economics Pol. Sc. Pol. Sc. Theology (3) English	Economics Pol. Sc. Pol. Sc. Theology Philosophy

- (1) Economics 100 will be substituted by students who have not taken this course in the first year.
- (2) Students who have taken Math. 101 in the first year may take Economics 221. Students who have not taken Math. 101 will take Elective.
- (3) Students who have fulfilled this Theology requirement in second year will take Economics 210.

ENGINEERING



FACULTY OF ENGINEERING

Dean

G. W. Joly
Associate Professors
C. Goldman, K. I. Krakow, S. J. Kubina
Assistant Professors
J. A. Krantzberg, S. A. Neilson, Rev. H.
Wardell, S.J.
Lecturers
D. Kaufman, V. Stefanovic
C. E. Adkar, C. R. Ahooja, W. Cosgrove,
B. Desai, L. B. Helbling, J. E.Orr,
A. K. Velan

THE OBJECTIVE

The overall objectives of the Faculty of Engineering are the growth and development of the student into a self-identifiable person and the acquisition by him of the knowledge upon which to build his career. In the concrete, these goals are proposed to the student as a personal search for excellence and the forming of himself to manage industry, whether technically or administratively.

While the subjects of the curriculum - technology, science, humanities, professional practice - have to be presented as discrete disciplines, the Faculty seeks at all times to make the student aware that he must integrate them into his personality so that they become the foundation for supporting his chief function in society - the making of decisions.

THE PROGRAM

The Faculty of Engineering offers in 1969/70 a program of two cycles: a two year Collegial (CEGEP) program followed by a three year university program. On the successful completion of the university program, students will be awarded a Bachelor of Science degree. Although the curricula of the programs are designed to enable students to pursue advanced studies in engineering, science or business at other universities, nevertheless, those who do not elect to do so, will find themselves well prepared for a career in industry at a high technological level. Students aspiring to practice as professional engineers on graduation are advised to register in an option marked DESIGN.

THE CURRICULA

Students accepted for registration in Engineering in September 1969 will be enrolled in the two-year Collegial program, a program which is parallel to the one offered in the Colleges d'Education General et Professionnel (CEGEP). On the successful completion of it, students will be admitted to a three year university program of engineering. The first year of it will be common to all students; the two upper years will be specialized. During the Collegial years and the first (common) year of the university program, students are encouraged to familiarize themselves with the option of the upper two years of the university. The Dean and his colleagues invite all students to consult them about these options.

A student completing the first year of university may select one of the following options to follow in the upper years.

CHEMICAL ENGINEERING

The Chemical Engineering Curriculum has been prepared for students whose goal is the development, design, operation and management of plants in the chemical and industrial field.

CIVIL ENGINEERING (DESIGN)

The Civil Engineering Curriculum (Design) has been prepared for students whose goal is either the design of structures or the design and control of engineering systems.

ELECTRICAL ENGINEERING

A. Design

The curriculum offers a core of electrical engineering subjects and reasonable depth of study in physics and applied mathematics. Selected electives can be used by the student to open the way for graduate study in some of the modern technological areas such as solid state physics and systems.

B. Computation

The option in Engineering Computation is designed for those engineering students who wish to specialize in the expanding field of computer technology. The curriculum has a strong engineering content integrated with courses in electronics, computers and engineering computation to provide a good introduction to the field of computer-aided design in the major fields of engineering.

MECHANICAL ENGINEERING

A. Design

The curriculum in Mechanical Engineering (Design) is concerned with the generation and utilization of power, the design and operation of mechanical devices.

B. Industrial Engineering

This program is designed for students who are mainly interested in the production and supervisory aspects of Engineering. It is built on a strong foundation of basic engineering principles in the field of Mechanical Engineering.

C. Engineering Administration

This curriculum is designed for those students who while making the administration of industry their goal nevertheless consider that their success will depend on a sound grasp of the increasingly high technological content of industry, especially in Mechanical Engineering.

PROMOTION

For promotion, an overall average of at least 60% of the weighted marks is required, and at least 50% in each separate examination. A student who fails to achieve promotion and wishes to discuss the possibility of continuing his academic career in the Faculty of Engineering must apply IN WRITING to the Dean, Engineering, before July 15.

ADMISSIONS

The requirements for admission are as follows:

Canadian Applicants

to first year:

- 1. For consideration for entry, an applicant must have:
 - a) achieved Junior Matriculation;
 - b) passed 10 papers in June, amongst which must be: English (2 papers).

Trigonometry*

Physics, Chemistry.

- c) achieved an overall average of at least 70% in these 10 papers and a good second class mark in the compulsory ones listed in b) above.
- d) Written the standard Admission to Canadian Universities (SACU) tests or the College Entrance Examination Board (CEEB) tests.
- Canadian applicants whose qualifications are different from those above should apply IN WRITING to Loyola College for a review of them.
- 3. ACCEPTANCES IN EARLY JUNE ARE GRANTED TO WELL QUALIFIED CANDIDATES.

Applicants from Abroad to first year

Applicants who consider that their qualifications are equivalent to those specified for Canadian students are invited to submit them to Loyola College for review.

*Applicants having, in addition, Intermediate Algebra will receive favorable consideration.

Collegial One, Engineering

COURSE	Course			Lecture hours per week		. hours week
	Number	Mark	First Term	Second Term	First Term	Second Term
MECHANICS I	E-001	100	2	2	_	_
VECTOR ANALYSIS	E-101	100	2	2		_
CHEMISTRY	C-101/2	150	3	3	3	3
CALCULUS	M-110	100	3	3		
FORTRAN PROGRAM	Cc-010	_	2		_	
FRENCH	F-	100	2	2	1	1
ENGLISH	EN-101	100	3	3		
*ELECTIVE	-	100	3	3	_	_
TOTAL:		750	20	18	4	4

^{*}A full course in the Faculty of Arts. Lecture schedule may limit choice.

Second Year Engineering — ALL OPTIONS**

COURSE	Course			hours week	Labs, hours per week	
	Number	Mark	First Term	Second Term	First Term	Second Term
MECHANICS II	E-002	100	2	2		_
ENGINEERING PROBLEMS	E-102	50		_	2	2
ENG. GRAPHICS II	E-202	100	1	1	2	2
PROF. PRACTICE II	E-302	50	1	1	_	
*TECHNICAL REPORT	E-313	_	_	_	_	_
MATL'S SCIENCE I	E-802	100	2	2	_	_
PHYSICAL CHEMISTRY	C-231	100	3	3		
ALGEBRA	M-212	100	2	2		_
CALCULUS	M-210	100	3	3	_	
LIGHT & ELECTRICITY	P-206	100	3	3	2	2
PHILOSOPHY	_	100	2	2		
THEOLOGY	_	100	2	2	_	_
TOTAL:		1,000	21	21	6	6

Third Year CHEMICAL ENGINEERING

	COURSE	Course	Weighted	Lecture hours per week		Labs. hours per week	
	OONSE	Number	Mark	First Term	Second Term	First Term	Second Term
	STR. OF MAT'LS II	E-013	50	2			
	NUMERICAL ANALYSIS & COMP.	E-133	75	2	_	2	_
	*TECHNICAL REPORT	E-313	100		_		
	CIRCUIT ANALYSIS	E-633	75	2		3	_
	ELECTRICAL ENG.	E-643	100	_	3		3
	THERMODYNAMICS						
	& FLUID MECH. I	E-714	150	2	2	2	2
- 1	INORGANIC QUANT. ANALYSIS	C-212	100	1	1	3	3
	PHYS. CHEM. LAB.	C-333	100		_	4	_
	DIFFERENTIAL EQUATIONS	M-312	100	2	2	_	
	ENGINEERING MATHS.	M-313	100	2	2	_	_
	THEOLOGY	_	100	2	2	_	_
	TOTAL:		1,050	15	12	14	8

^{*}Prepared in summer following second Year.

Fourth Year CHEMICAL ENGINEERING

COURSE	Course	Course Weighted		e hours week	Labs. hours per week	
COURSE	Number	Mark	First Term	Second Term	First Term	Second Term
SYSTEMS ANALYSIS	E-103	100	2	2	_	_
FEEDBACK & CONTROL SYSTEMS	E-134	50	2		_	_
*TECHNICAL REPORT	E-314	100	_	_		
EXPERIMENTAL ENG.	E-704	50	1	_	2	<u> </u>
ACCOUNTING	A-310	100	2	2		
ORGANIC CHEM.	C-221	100	3	3	_	_
ORGANIC CHEM. LAB	C-222	50			3	3
THERMODYNAMICS	C-334	75	3	_	—	_
PROB. & STATISTICS	M-201	100	3	3	_	_
PHILOSOPHY	-	100	2	2	_	_
TOTAL:		825	18	12	5	3

^{*}Prepared in summer following third Year.

^{*}Prepared in summer following Year 2.
Counted as part of Year 3. Do not register in Year 2.
**In 1969-70 only. To be replaced by Collegial II in 1970-71.

Third Year CIVIL ENGINEERING --- Design

COURSE	Course	Weighted		re hours week	Labs. hours per week	
COUNCE	Number	Mark	First Term	Second Term	First Term	Second Term
STR. OF MAT'LS II	E-033	100	2	2		_
STR. OF MAT'LS LAB.	E-043	25		_	_	3
MECH. OF MACHINES	E-053	75	2	_	3	
NUMERICAL ANALYSIS	E-133	75	2		2	
*TECHNICAL REPORT	E-313	100	_		_	_
SURVEYING	E-523	75	2	_	2	
CIRCUIT ANALYSIS	E-633	75	2	-	3	_
ELECTRICAL ENG.	E-643	100		3		3
GEOLOGY	G-202	100		3		3
DIFF. EQUATIONS	M-312	100	2	2	_	_
ENGINEERING MATHS.	M-313	100	2	2		
THEOLOGY	_	100	2	2 ·	_	_
TOTAL:		1,025	16	14	10	9

^{*}Prepared in summer following second Year.

Fourth Year CIVIL ENGINEERING — Design

COURSE	Course	Weighted Mark		e hours week	Labs. hours per week	
COUNSE	Number		First Term	Second Term	First Term	Second Term
STR. OF MAT'LS III	E-034	50	2	_		_
MECH. OF MACHINES	E-054	50	2	_		_
STRUC. ANALYSIS	E-174	100	1	1	2	2
STRUC. DESIGN	E-214	150	2	2	3	3
*TECHNICAL REPORT	E-314	100	_		_	
SOIL MECHANICS	E-524	75	_	2		3
THERMODYNAMICS &						
FLUID MECHANICS I	E-714	150	2	2	2	2
MECH. ENG. LAB.	E-734	25	_		_	3
PHILOSOPHY		100	2	2	_	_
TOTAL:		800	11	9	7	13

^{*}Prepared in summer following third Year.

Third Year — ELECT. ENG. — "A" — Design

COURSE	Course	Weighted	Lecture hours per week		Labs. hours per week	
COURSE	Number	Mark	First Term	Second Term	First Term	Second Term
STR. OF MAT'LS I	E-033	100	2	2		-
STR. OF MAT'LS LAB.	E-043	25	_	_		3
SYSTEMS ANALYSIS	E-103	100	2	2	_	_
NUMERICAL ANALYSIS	E-133	75	2	_	2	
*TECHNICAL REPORT	E-313	100	_	_	_	_
CIRCUIT ANALYSIS						
& ELECTRONICS	E-623	150	2	3	3	3
SOLID STATE PHYSICS	E-653	75		3	_	_
DIFF. EQUATIONS	M-312	100	2	2	_	
ENGINEERING MATHS.	M-313	100	2	2	_	_
MODERN PHYSICS	P-303	100	3		_	_
THEOLOGY	_	100	2	2	_	
TOTAL		1,025	17	16	5	6

^{*}Prepared in summer following second Year.

Fourth Year — ELECT. ENG. — "A" — Design

AAUDOE	Course	Weighted		e hours week		hours week
COURSE	Number	Mark	First Term	Second Term	First Term	Second Term
CNTL. & SIMULTN. LAB.	E-124	75		2		3**
FEEDBACK & CNTL. SYST.	E-134	50	2	_		
*TECHNICAL REPORT	E-314	100	_	_	-	
ELECTRONIC CIRCUITS					,	
& DEVICES	E-624	150	3	2 3	3	3
SIGNAL PROCESSING	E-654	75	_	3	_	
ELECTRICAL MACHINES	E-664	75	2		3	_
ELEC. MAG. THEORY	E-674	100	3	_		_
THERMODYNAMICS &						
FL. MECHANICS 1	E-714	150	2	2	2	2
PROBABILITY & STATISTICS	M-201	100	3	3	_	
PHILOSOPHY		100	2	2	_	_
TOTAL:		975	17	14	8	8

^{*}Prepared in summer following third Year.
**Alternate weeks.

Third Year — ELECT. ENG. — "B" — Computation

COURSE	Course	Weighted		hours week	Labs, hours per week	
OOKSE	Number	Mark	First Term	Second Term	First Term	Second Term
STR. OF MAT'LS I	E-033	100	2	2	_	_
STR. OF MAT'LS LAB.	E-043	25			_	3
SYSTEMS ANALYSIS	E-103	100	2	2		_
**NUMERICAL ANALYSIS &						
COMP. METHODS	E-133	75	2	_	2	
*TECHNICAL REPORT	E-313	100	_		_	_
CIRCUIT ANALYSIS	E-633	75	2	_	3	
ELEC. ENGINEERING	E-643	100	_	3	_	3
ACCOUNTING	A-310	100	3	3 3 2 2 2		_
DIFFERENTIAL EQUATIONS	M-312	100	2	2	_	
ENGINEERING MÄTH.	M-313	100	2	2	_	_
THEOLOGY	_	100	2	2		_
***EXTRAS						
MECH. OF MACHINES	E-053	75	2	_	3	_
MECHANICAL DESIGN	E-203	50	-	1	_	3
TOTAL:		975	17	16	5	6

*Prepared in summer following second Year.

**Alternative course, Numerical Analysis M-240, 3 hrs. per week.
***Students intending to take E-204 in Year IV are required to take E-053 & E-203.

Fourth Year — ELECT. ENG. — "B" — Computation

COURSE	Course			Lecture hours per week		hours week
COURSE	Number	Mark	First Term	Second Term	First Term	Second Term
CNTL. & SIMULTN, LAB.	E-124	75	_	2	-	3
FEEDBACK & CNTL. SYSTEMS	E-134	50	2		_	
INTRO. TO DIGITAL						
COMPUTER ENGINEERING	E-154	100	2	2		_
**DIGITAL COMPUTER APPL.						
IN ENGINEERING	E-164	150	2	2	3	3
*TECHNICAL REPORT	E-314	100	_	_	_	
SWITCHING CIRCUITS	E-684	75	-	2	_	3
THERMODYNAMICS &						
FL. MECHANICS 1	E-714	150	2	2	2	2
PROBABILITY & STATISTICS	M-201	100	3	2		
MODERN PHYSICS	P-303	100	3	_	Married	_
PHILOSOPHY	_	100	2	2	_	
and one of:	1			_		
***MECH, ENG. DESIGN	E-204	150	2	2	3	3
SOLID STATE PHYSICS	E-653	50		2	_	_
ELEC. MAG. THEORY	E-674	100	3	_		_
ECONOMICS	Ec-100	100	2	2	_	
TOTAL:	105	0/1150	18/19	17/18	5/8	11/14

*Prepared in summer following third Year.

**Advanced Numerical Analysis M-440, 3 hours per week, can be substituted for students who have taken M-240 in Year III.

***Prerequisite: E-203 & E-053 in Year III.

Third Year — MECH. ENG. — "A" — Design

COURSE		Course Weighted		e hours week	Labs.	hours week
COURSE	Number	Mark	First Term	Second Term	First Term	Second Term
STR. OF MAT'LS I	E-033	100	2	2		_
STR. OF MAT'LS LAB.	E-043	25	_	_	_	3
MECH, OF MACHINES I	E-053	75	2		3	i — I
SYSTEMS ANALYSIS	E-103	100	2	2	_	
NUMERICAL ANALYSIS	E-133	75	2	_	2	
MECHANICAL DESIGN	E-203	50	_	1	_	3
*TECHNICAL REPORT	E-313	100	_	_	-	_
CIRCUIT ANALYSIS	E-633	75	2	_	3	
PLANNING & TECH. OF						
MANUFACTURING	E-713	100	_	2	-	4**
MAT'LS SCIENCE LAB.	E-833	25		_	_	3
DIFF. EQUATIONS	M-312	100	2	2	_	_
ENGINEERING MATHS.	M-313	100	2	2		-
THEOLOGY		100	2	2	_	_
TOTAL:		1,025	16	13	8	3

^{*}Prepared in summer following second Year.

Fourth Year — MECH. ENG. — "A" — Design

COURSE	Course	Weighted	Lecture hours per week		Labs. hours per week	
COURSE	Number	Mark	First Term	Second Term	First Term	Second Term
STR. OF MAT'LS	E-034	50	2	_	_	_
MECH, OF MACHINES II	E-054	50	2			_
FEEDBACK & CONTROL SYSTEMS	E-134	50	2	_		-
MECHANICAL DESIGN II	E-204	150	2	2	3	3
*TECHNICAL REPORT	E-314	100				_
ELEC. ENGINEERING	E-643	100	- − 1	3	_	3
**EXPERIMENTAL ENG.	E-704	50	1		2	_
THERMO. & FL. MECH. I	E-714	150	2	2 2	2	2
THERMO, & FL. MECH. II	E-724	150	2	2	2	2 2 3
MECH, ENG, LAB.	E-734	25	_	_	_	3
PHILOSOPHY	_	100	2	2	_	_
TOTAL:		975	14	11	7	13

^{*}Prepared in summer following third Year.

^{**}Alternate weeks.

^{**}Not required in 1969/70.

Third Year — MECH. ENG. — "B" — Industrial Engineering

COURSE	Course	Weighted		e hours week		hours week
COURSE	Number	Mark	First Term	Second Term	First Term	Second Term
STR. OF MAT'LS I	E-033	100	2	2		
STR. OF MAT'LS LAB.	E-043	25		_		3
MECH. OF MACHINES	E-053	75	2		3	
NUMERICAL ANALYSIS	E-133	75	2	_	2	
MECHANICAL DESIGN	E-203	50		1	<u> </u>	3
*TECHNICAL REPORT	E-313	100			<u> </u>	
CIRCUIT ANALYSIS	E-633	75	2	_	3	_
PLANNING & TECH. OF						
MANUFACTURING	E-713	100		2	_	4**
ECONOMICS	Ec-100	100	3	3		
MATHEMATICS	M-202	75		3		_
DIFF. EQUATIONS	M-312	100	2	2	<u> </u>	-
THEOLOGY		100	2	2	-	
TOTAL:		975	15	15	8	10

^{*}Prepared in summer following second Year.
**Alternate weeks.

Fourth Year — MECH. ENG. — "B" — Industrial Engineering

COURSE	Course	Weighted	Lecture hours per week		Labs. hours per week	
GOOKSE	Number	Mark	First Term	Second Term	First Term	Second Term
SYSTEMS ANALYSIS	E-103	100	2	2	_	_
FEEDBACK & CONTROL SYSTEMS	E-134	50	2		_	
*TECHNICAL REPORT	E-314	100	-	-		_
ELECTRICAL ENG.	E-643	100		3	_	3
**EXPERIMENTAL ENG.	E-704	50	1		2	_
THERMO & FL. MECH. I	E-714	150	2	2	2	2
**MAT'L. SC. LAB.	E-833	25		-		3
**ACCOUNTING	A-310	100	3	3	_	
ADMINISTRATION OF						
THE FIRM	B-310	75	3		_	_
***ECONOMICS	Ec-100	100	3	3	<u> </u>	_
ENGINEERING MATHS	M-313	100	2	2	_	
PHILOSOPHY	-	100	2	2		
TOTAL:		875	16	14	2	8

^{*}Prepared in summer following third Year.
**Not required in 1969/70.
***In 1969/70 only.

Third Year — MECH. ENG. — "C" — Engineering Administration

T	COURCE	COURSE Course Wei			hours week		hours veek
	COOKSE	Number	Mark	First Term	Second Term	First Term	Second Term
-	STR. OF MAT'LS I	E-033	100	2	2		
	STR. OF MAT'LS LAB.	E-043	25		_	_	3
-	MECH. OF MACHINES	E-053	75	2	_	3	_
	NUMERICAL ANALYSIS	E-133	75	2		2	_
	MECHANICAL DESIGN	E-203	50		1	_	3
- 1	*TECHNICAL REPORT	E-313	100			_	_
- 1	CIRCUIT ANALYSIS	E-633	75	2	_	3	_
	PLANNING & TECH, OF						
ı	MANUFACTURING	E-713	100		2	_	4**
	ECONOMICS	Ec-100	100	3	3 3	_	_
- 1	MATHEMATICS	M-202	75	 			_
1	DIFF. EQUATIONS	M-312	100	2	2	_	
	THEOLOGY	_	100	2	2		
	TOTAL:		975	15	15	8	10

^{*}Prepared in summer following second Year.

Fourth Year — MECH. ENG. — "C" — Engineering Administration

COLLDOS	Course	Weighted	Lecture hours per week		Labs. hours per week	
COURSE	Number	Mark	First Term	Second Term	First Term	Second Term
FEEDBACK & CONTROL SYSTEMS	E-134	50	2	_	_	
*TECHNICAL REPORT	E-314	100	_		_	_
ELECTRICAL ENG.	E-643	100	_	3	-	3
THERM, & FL. MECH. I	E-714	150	2	2	2	2
ACCOUNTING	A-310	100	3	3	-	
ADM. OF THE FIRM	B-310	75	3		I —	_
OPERATIONS ANALYSIS	B-464	100	3	3		
ECONOMICS	Ec-200	100	3	3	-	l —
PHILOSOPHY	-	100	2	2	_	
THEORY OF INTEREST	M-203	75	_	3		_
TOTAL:		950	18	19	2	5

^{*}Prepared in summer following third Year.

^{**}Alternate weeks.

APPLIED MECHANICS

001 Mechanics I.

G. W. Joly, J. Krantzberg

Position, velocity and acceleration of a rigid body executing plane motion. Relative motion. A preliminary study of the dynamics of curvilinear plane motion in order to establish the principles of center of gravity and moment of inertia. The Calculus is employed, from the outset, to develop the concepts of kinematics and vectors, (Course 101), are fully used to represent the elements of it.

Lectures: 2 hours per week, both terms.

002 Mechanics II.

C. Goldman

The three general approaches to dynamics: torque and inertia-acceleration, work and kinetic energy, impulse and momentum. The selection of the appropriate general approach in each problem is emphasized and numerical results are expected. Forces in rotating bodies, Gyroscopes. The vector approach is used freely. Lectures: 2 hours per week, both terms.

013 Strength of Materials I.

J. Krantzberg

Elastic theory of matter; thermal, axial, bending, and shear stress. Deflection of beams by differential equation of elastic line, and by moment-area. Torsimal stress, combined stresses.

Lectures: 2 hours per week, first term.

033 Strength of Materials II.

J. Krantzberg

Elastic and plastic properties of materials; axial, thermal, bending, shear, and torsion stresses; deflection of beams by differential equation of elastic line, and moment area; simple, fixed, and continuous beams; reinforced concrete beams; principal stresses and Mohr's circle; columns.

Lectures: 2 hours per week, both terms.

034 Strength of Materials III.

C. Goldman

Unsymmetrical bending, shear centre; curved beams; beams on continuous elastic supports; energy methods; failure theories.

Lectures: 2 hours per week, first term.

043 Strength of Materials Lab.

C. Goldman

Destructive and non-destructive testing; stress analysis using electrical strain gauges and photo stress techniques; properties of brittle and elastic materials.

Lab.: 3 hours per week, second term.

053 Mechanics of Machines I.

K. I. Krakow

Analytical and graphical velocity, acceleration and force analysis of mechanisms; static and dynamic balancing of rotating and reciprocating mechanisms; design of cams, gears, gear trains.

Lectures: 2 hours per week, first term.

Problems: 3 hours per week, first term.

054 Mechanics of Machines II.

K. I. Krakow

Vibrations, free, forced, damped; systems having single and multiple degree of freedom; torsional vibration of shafts, critical speed of shafts; flywheel calculations. Lectures: 2 hours per week, first term.

ENGINEERING ANALYSIS

101 Vector Analysis.

G. W. Joly and J. Krantzberg

Position vectors, addition of vectors, angle between two lines, equation of plane in normal form, scalar product, projection of one line on another, vector product, shortest distance between a point and a line or plane, shortest distance between two lines, moment of a force about a line, triple scalar product.

Lectures: 2 hours per week, two terms.

102 Engineering Problems.

J. Krantzberg

Solving of problems in Mechanics, and Mathematics. Great emphasis is laid on setting up problems in Engineering. Static equilibrium as a special case of dynamics is presented through a study of simple space frames.

Lectures: 2 hours problems per week, two terms.

103 Systems Analysis.

J. Krantzberg

The application of Mathematics to the solutions of Civil, Electrical and Mechanical Engineering problems. Systems of single and multiple degrees of freedom; gyroscopic motion; particle mechanics; vector fields; unit functions; analogies between mechanical and electrical systems.

Lectures: 2 hours lectures per week, both terms.

124 Control and Simulation Laboratory.

D. Kaufman

Measurements on control systems; modelling of control and physical systems; fundamentals of analogue computation; analogue computer simulation of physical systems.

Lectures: 2 hours per week, second term. Lab.: 3 hours per week - alternate weeks.

133 Numerical Analysis and Computation Methods.

S. Kubina

An introduction to Digital Computer Programming and associated methods of numerical analysis useful in the solution of engineering problems. Laboratory periods are devoted to the solution of problems using a desk calculator and a digital computer.

Lectures: 2 hours per week, one term.

Computer Lab.: 2 hours per week, one term.

134 Feedback Control Systems.

D. Kaufman

Review of Laplace Transform Methods.

Dynamics of control system components.

Objectives of Automatic Control. Block Diagrams. Complex Plane Techniques. Stability. Root Locus. Compensation. Frequency Response Methods.

Lectures: 2 hours per week, first term.

Text: Introduction to Automatic Control Systems, Clark.

154 Introduction to Digital Computer Engineering.

Fundamental concepts; switching algebra, number systems, codes, arithmetic operations, and principles of logical design. Computer arithmetic and control units, computer memories, stored-program computers. Problem formulation, coding and programming concepts, computer system organization. Examples shall be taken from modern general-purpose computers.

Lectures: 2 hours per week, both terms.

164 Digital Computer Applications in Engineering.

Selected Topics in numerical methods for solution of engineering problems, iterative solutions of algebraic and transcendental equations, solutions of systems of linear algebraic equations, matrix manipulation, polynominal curve fitting, solution of ordinary and partial differential equations and of systems of differential equations. Stability and Accuracy of solutions. The methods are illustrated by application to typical engineering problems and to recent techniques in computer-aided design.

Applications to engineering management and project control techniques such as CPM, PERT and PERT/COST are discussed. The important portion of the course involves the analysis and solution of a representative class of problems by the student using the digital computer.

Lectures: 2 hours per week, both terms.

Lab.: 3 hours per week.

174 Structural Analysis.

C. Goldman

Analysis of statically indeterminate structures, moment distribution, slope deflection, virtual work, and strain energy; deflection analysis; influence lines; collapse methods.

Lectures: 1 hour per week, two terms. Labs.: 2 hours per week, two terms.

ENGINEERING DESIGN

201 Engineering Graphics I.

H. Wardell

Orthographic projection, auxiliary and oblique views, dimensioning, sectioning. Geometrical construction of ellipses, hyperbolas, cycloids, involutes, etc. Pictorial drawings including isometric, oblique. Common machine elements; screws, welding, structural shapes. Free-hand sketching, working and assembly drawings.

Lectures: 1 hour per week for two terms.

Lab.: 2 hours per week for two terms.

Text: French, Engineering Drawing, McGraw-Hill.

202 Engineering Graphics II.

H. Wardell

Theory of orthographic projection, auxiliary views, lines, planes, intersections, dihedral angles, parallelism, perpendicularity, revolution, developments, mining and civil engineering problems involving principles covered in the course.

Lectures: 1 hour per week for two terms.

Lab.: 2 hours per week for two terms.

Text: Descriptive Geometry, Paré-Loving-Hill

203 Mechanical Design I.

Mechanical design involving elementary stress analysis design of cams, clutches and brakes, couplings; relation between design and manufacturing techniques; presentation of design briefs.

Lectures: 1 hour per week, second term.

Problems: 3 hours per week, second term.

204 Mechanical Design II.

Design factors, stress concentration, fatigue, impact; design of belt and chain drives, gears, shafts, bolted, riveted and welded connections, beams (curved and straight) and columns. Design problems related to mechanical engineering involving the application of the theoretical work of Strength of Materials and Mechanics of Machines.

Lectures: 2 hours per week, both terms.

Lab.: 3 hours per week, both terms.

214 Structural Design.

Design of tension, compression and flexural members in steel and timber; specifications and codes; riveted, bolted, and welded details; building frames; design of belt and chain drives, gears, shafts; stress concentration, fatigue, impact.

Lectures: 2 hours per week, two terms.

Labs.: 3 hours per week, two terms.

PROFESSIONAL PRACTICE

301 Professional Practice I.

S. A. Neilson

Use of English, both oral and written in engineering practice, mechanics of presentation, graphical representation, reproduction methods, job applications; specifications.

Lectures: 1 hour per week, both terms.

302 Professional Practice II.

S. A. Neilson

Continuation of Course 301 with emphasis on Public Speaking - Conference Techniques, etc.

Lectures: 1 hour per week, both terms.

313 Technical Report.

S. A. Neilson

Students entering the Third Year of Engineering must submit a Technical Report. The most suitable subject for the Report is a topic drawn from the experience during his summer work. If, however, a student's summer experience does not provide a reasonable topic, he may visit and inspect any engineering, scientific or industrial project in course of construction or operation, and write upon his observations. The Report should be between 2000 and 4000 words in length and must be handed in not later than Registration Day.

314 Technical Report.

S. A. Neilson

Students entering the Fourth Year of Engineering must submit a Technical Report similar to Technical Report 313 but at a more advanced level.

CIVIL ENGINEERING

523 Surveying.

W. Cosgrove

Types of survey; description and use of level, compass, transit, chain and tape; levelling; traverses, stadia. Route surveys involving simple, spiral, and vertical curves. Grades, cross-sections, area and earth-work calculations. Use of planimeter; Triangulation; Hydrographic surveying.

Lectures: 2 hours per week, one term.

Lab.: 2 hours per week, one term.

524 Soil Mechanics.

W. Cosgrove

Soil properties and structure; subsurface exploration methods; bearing capacity of soils, soil strength, settlement and consolidation; slope stability; groundwater and seepage; lateral earth pressure theories, design of retaining walls, and footings; foundation types.

Lectures: 2 hours per week, one term.

Labs.: 3 hours per week, one term.

ELECTRICAL ENGINEERING

623 Circuit Analysis and Energy Conversion.

S. Kubina

The fundamentals of the analysis of linear circuits to study time varying, periodic and non-periodic currents, and voltages; node and loop analysis; network theorems; time frequency domain relationships; polyphase circuits; Fourier series, Laplace transforms; coupling elements and coupled circuits; ideal transformers; controlled sources. Semiconductor electronics. Simple amplifier circuits, frequency response. Simple rectifier and modulator circuits. Analysis of a communication and a power system.

Lectures: 2 hours per week, two terms.

Lab.: 3 hours per week, two terms.

624 Electronic Circuits and Devices.

Device equivalent circuit representations; bias-stabilized transistor amplifiers, oscillators, multivibrators, pulse circuits, gates and switches, integrated circuits. Modulation and detection circuits.

Lectures: 3 hours per week, first term; 2 hours per week, second term.

Lab.: 3 hours per week, both terms.

633 Circuit Analysis.

D. Kaufman

Analysis of the response of linear circuits to steady and time varying currents and voltages; node and loop analysis; network theorems; Laplace transforms; polyphase circuits.

Lectures: 2 hours per week, one term.

Lab.: 3 hours per week, one term.

643 Electrical Engineering.

V. Stefanovic

Elements of three phase circuits. D. C. Machines, induction and synchronous machines and their terminal characteristics. Transistors, vacuum tubes and their equivalent circuits. Rectification and small signal amplifiers. Survey of a communications and dynamic measurement system. Feedback and control systems.

Lectures: 3 hours per week, one term.

Lab.: 3 hours per week, one term.

653 Solid State Physics.

C. K. Adkar

Elementary crystal structure. Waves in periodic media. Lattice vibrations. Free electron models. Thermionic emission. Energy bands. Semiconductors, conduction by holes and electrons, doping, junctions. Magnetic and dielectric properties of solids.

Lectures: 3 hours per week, one term.

654 Signal Processing.

Mathematical representation for signals. Laplace Transforms, series expressions. Fourier transforms, amplitude and phase spectra, convolution and correlation methods, signal, sampling. Amplitude, frequency and phase modulation, demodulation, suppressed band systems, multiplexing, noise spectra, signal detection in the presence of noise.

Lectures: 3 hours per week, second term.

Ref.: Lathi, "Signals, Systems and Communications"; Javid & Brenner, "Analysis, Transmission and Filtering of Signals."

664 Electrical Machines.

V. Stefanovic

Electromechanical energy conversion and rotating electrical machines. Study of elements of 3-phase circuits and of D-C, induction, and synchronous machines and their terminal characteristics.

Lectures: 1 hour per week, first term.

Lab.: 3 hours per alternate weeks.

674 Electromagnetic Theory.

C. Adkar

Electrostatic fields, Coulomb's Law, Gauss' Law, Poisson and Laplace equations. Boundary value problems. Magnetostatic fields, Ampere's Laws, Biot-Savart Law. Tune varying fields, Maxwell's equations. Reflection and refraction of plane waves. Applications to engineering problems.

Lectures: 3 hours per week, first term.

684 Switching Circuits.

Boolean algebra; switching devices; analysis and synthesis of combinational circuits; minimisation methods; codes and code-processing networks; sequential circuits.

Lectures: 2 hours per week, second term.

Lab.: 3 hours per week, second term.

MECHANICAL ENGINEERING

704 Experimental Engineering.

K. I. Krakow

Theory and use of instruments; measurement of temperature, pressure, fluid flow, power; analysis of combustion products.

Lectures: 1 hour per week, first term.

Lab.: 2 hours per week, first term.

713 Planning and Technology of Manufacturing.

A. K. Velan

Review of metals used in industry; their properties and fabricating characteristics; plastics; castings; forgings; welding; cold forming; cutting tools; machine tools; automation and numerical control; inspection and quality control; planning and machine loading.

Machine shop practice: planning and machine loading; machining of components; hardfacing and welding; grinding and lapping; inspection, assembly and testing; tool layout, setup of fully automatic transfer machine; setup of N.C. machine tool.

Lectures: 2 hours per week, second term.

Shop practice: 4 hours per week, second term. (Alternate weeks)

714 Thermodynamics and Fluid Mechanics I.

K. I. Krakow

Dimensional analysis; thermodynamics concepts, properties, processes laws and cycles; non-reacting and reacting mixtures; properties of fluids, hydrostatics, incompressible flow, continuity, conservation of momentum, conservation of energy, concept of laminar and turbulent flow; flow in pipes; open channel flow.

Lectures: 2 hours per week, both terms. Problems: 2 hours per week, both terms.

724 Thermodynamics and Fluid Mechanics II.

K. I. Krakow

Thermodynamic relationships, advanced problems involving cycles and the first and second laws; similitude; subsonic and supersonic compressible flow; potential flow theory, boundary layer theory, fluid machinery; introduction to heat transfer and heat exchangers.

Lectures: 2 hours per week, both terms. Problems: 2 hours per week, both terms.

734 Mechanical Engineering Laboratory.

K. I. Krakow

Experiments relating to thermodynamics, fluid mechanics and heat transfer. Testing of mechanical equipment fans, Diesel engine, reciprocating compressor, boiler, steam turbine, open channel flow, heat exchanger, etc.

Lab.: 3 hours per week, second term.

MATERIALS SCIENCE

802 Materials Science.

J. E. Orr

A systematic approach to the study of properties and behaviour of engineering materials including, the fundamental properties of materials, metallic phases, multiphase materials, structural effects on properties, stability under service stresses; thermal, electrical, chemical properties and corrosion; organic and nonmetallic materials.

Lectures: 2 hours per week for two terms.

833 Materials Science Laboratory.

J. E. Orr

The metallurgical microscope and its usefulness as a field and research tool to determine the properties of various metals; a study of micro- and mascroscopic properties of metals. The effects of deformation and subsequent heat treatment, and the use of heat treating to alter the properties of metals. Cooling curves and microscopic examination to establish the phase diagram for a metal alloy. Laboratory: 3 hours per week, second term.

ENGLISH



Professor (Chairman) A. G. Hooper M. Blanar, Rev. G. MacGuigan, S.J., A. Associate Professors Newell, S. C. Russell Assistant Professors A. T. Broes, P. Davies, G. Gross, R. K. Martin, L. P. Nowicki, M. R. Philmus, R. Philmus, A. Raff, L. Rahm, A. N. Raspa, R. S. Wareham, K. Waters, I. Webb, J. P. Zuckermann Lecturers J. Adamson, T. C. Faulkner, S. Poteet, P. Salmon, D. Yates J. L. Blacklock, C. W. Cockerline, V. Davis, Instructors A. Fletcher, L. Gold, J. Hassinger, B. Jack, S. Kelly, H. Kravitz, J. Lermer, N. H. Lewis, L. MacIntyre, J. O'Connor, D. O'Donnell, J. Panuska, J. P. Sullivan, P. R. West

Courses leading to an Honours B.A. in English						
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR			
Discontinued—See Collegial Program	+Classics English (The equivalent of two full courses from 610, 613, 620, 633, 643, 653 673, 674) Philosophy Two Electives	English (The equivalent of three full courses from the list of Honours and Majors Courses*) Philosophy One Elective	English (The equivalent of three full courses from the list of Honours and Majors Courses* Theology			

*Honours Students must take the equivalent of one full Shakespeare course; of one full pre-seventeenth century course (i.e. one full or two half courses chosen from 704, 730, 733, 734, 765, of which at least one must be 704, 730, or 733); of three full courses including at least a half course from each of the following four areas: seventeenth century, eighteenth century, Romantics, and Victorians; and the equivalent of at least one other full course from the list of Honours and Majors courses. + Or English 680, or 590, or an approved course in Comparative Literature.

Courses leading to a I FIRST YEAR	B.A. with a Major in Engl SECOND YEAR	ish THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Classics English (The equivalent of two full courses from 610, 613, 620, 633, 643, 653, 673, 674) Philosophy French	English (The equivalent of two full courses from the list of Honours and Major Courses*) Philosophy Two Electives	English (The equivalent of two full courses from the list of Honours and Major Courses*) Theology Tyo Electives

^{*}Majors must take the equivalent of one full Shakespeare course, of one full course from the seventeenth or eighteenth centuries, of one full course from the Romantics or Victorians, and the equivalent of at least one other full course from the list of Honours and Majors courses.

NOTE 1: In the course of their four-year programme, all students must take at least two courses in Philosophy and two in Theology.

NOTE 2: Students will be encouraged to use electives either to build up a "minor", or to extend the number and scope of their courses in English, or to take courses which are related to and supplement courses already chosen.

NOTE 3: Students planning to go on to graduate studies should consult members of the department in order to try to ensure that their choice of courses will satisfy the requirements of graduate schools.

NOTE 4: Students in their second year who are uncertain whether they will go on to take Honours or to Major in English are advised to satisfy the regulations for Majors by taking a second course in French in their second year.

NOTE 5: A. General courses 200 - 599. Honours and Majors 600 - 999.

- B. Final digit 0 indicates a full course. Final digit odd indicates a half course, 1st term. Final digit even indicates a half course,
- C. A single decimal (.1, .2) indicates a half course which is repeated.
- D. A double decimal (.01, .02) indicates a section.
- E. Courses will be in the following order:

General - genre, national, miscellaneous Honours and Majors - 2nd year, British (by chronological order), other national literatures.

099 First Year. Full Course. Non-Credit.

D. Yates

This is a course for students who must improve their skills in reading and writing English so that they may pursue college-level English. The course includes the frequent writing of essays of different kinds and the reading of a variety of works at the student's level. Classes are of seminar size so that the student's individual difficulties may be diagnosed and remedied. Native and non-native speakers of English will be grouped separately.

G. Gross and Instructors 101 Introduction to English Studies. Full Course.

The course includes the reading of works normally in their entirety which are accessible and interesting to students at this level. A variety of types of works are studied and these are discussed in seminars. As well, students meet individually with their instructors in tutorials designed for the purpose of writing instruction and the assessment of the student's progress. Approximately one half of the course time is devoted to preparing students for the regularly assigned essays; but the course treats literature, language and writing in an integrated fashion.

COURSES FOR GENERAL ARTS STUDENTS: ELECTIVES FOR HONOURS AND MAJORS

NOTE: STUDENTS MAY TAKE ONE FULL COURSE OR TWO HALF COURSES.

R. Philmus 233 Understanding Poetry. Half Course. First term.

This course is specifically intended for students who have an intuition that poetry has something to say to them, but who are hesitant about studying the beast because previous contact has shown it to be mysterious and terrifying beyond belief or because they have been exposed to it by way of the murder-and-dissect pedagogical school which makes it out to be a dead moral embalmed in imagery, rhyme, meter, etc. The text for the course is The Faber Book of Verse.

3 hours per week.

253 Drama: Tragedy. Half Course. First term.

P. Davies

A study of major Tragedies from the Renaissance to Modern Times aimed at understanding what the tragic vision is and the various forms it has taken. Tragedies will be selected from the works of Marlowe, Shakespeare, Webster, Racine, Rowe, Goethe, Schiller, Kleist, and several modern figures.

3 hours per week.

ENGLISH

254 Drama: Comedy. Half Course. Second term.

P. Davies

A study of major Comedies from the Renaissance to Modern Times aimed at understanding the techniques and conventions of Comedy. Comedies will be selected from the works of Dekker, Shakespeare, Jonson, Molière, Wycherley, Sheridan, and Shaw.

3 hours per week.

260.01 Modern Drama, Full Course.

S. Poteet

The first term will concentrate on Ibsen, Chekhov, Strindberg and Shaw. In the second term we will begin with Brecht and Beckett and examine the development of the contemporary drama (especially in England and North America).

3 hours per week for two terms.

260.02 Modern Drama: the Evolution of Theatre of the Absurd. Full Course.

L. Rahm

The course will deal with the backgrounds and development of Absurdist drama as it represents one attempt to come to grips with the plight of modern man. Theatrical technique as well as literary content will be studied in plays by Jarry, Strindberg, Ionesco, Genet, Beckett, Pinter and Stoppard. Background readings will also include some non-dramatic writings by Lewis Carroll, Kafka and Camus.

270 History of the British Novel. Full Course.

J. P. Zuckermann

Wide reading will be encouraged, but the course will be mainly concerned with detailed study of a few major novelists of the eighteenth, nineteenth and twentieth centuries.

274 Understanding the Novel. Half Course. Second term.

R. Philmus

The procedure for determining the meaning of a novel and how it achieves that meaning will be illustrated in this course by examining the modern novel from Hardy to Faulkner. The course is open to all students with an interest in literature; no previous experience in doing literary analysis will be assumed.

3 hours per week.

280 Seventeenth Century Literature.

A. N. Raspa

283.2 The Twentieth Century British Novel. Half Course. Offered in both terms.

A. T. Broes

Readings will include: Hardy, Jude the Obscure; Conrad, Lord Jim; Joyce, A Portrait of the Artist; Lawrence, Women in Love; Greene, The Power and the Glory; Waugh, A Handful of Dust; Cary, The Horse's Mouth; Golding, The Inheritors.

303 The Twentieth Century American Novel. Half Course. First term.

A. T. Broes

American fiction of the twenties and thirties. Novels read will include: Hemingway, The Sun Also Rises; Faulkner, Light in August; Henry Roth, Call It Sleep; Wright, Native Son.

3 hours per week.

304 The Twentieth Century American Novel. Half Course. Second term.

A. T. Broes

Basic trends in recent American fiction. Novels read will include: Faulkner, The Sound and the Fury; Styron, Lie Down in Darkness; O'Connor, The Violent Bear It Away; Bellow, Seize the Day.

3 hours per week.

310 Twentieth Century American Literature: Prose and Poetry. Full Course.

L. P. Nowicki

Emphasis upon Fitzgerald, Hemingway, Faulkner, Eliot.

3 hours per week for two terms.

334 Twentieth Century Fiction. Half Course. Second term.

A. Raff

British and American novels and short stories from 1890 to the present. Attention will be concentrated on the authors' varied assessments of modern life and on their evolvement of techniques to express their age and themselves.

3 hours per week.

360 Readings in the Twentieth Century Novel. Full Course. A. N. Raspa

A study of the development of the modern novel in the works of Conrad, Hemingway, MacLennan, and Greene, among other writers.

3 hours per week for two terms.

370 The Art of Modern Fiction. Full Course.

S. Poteet

The first term will concentrate on the classic twentieth century novelists (James, Joyce, Conrad, Lawrence, Faulkner). In the second term we will examine interesting novels of the Post-World War II era (Camus, Mailer, Ellison).

3 hours per week for two terms.

380.01 Modern Fiction. Full Course.

P. Salmon

Readings in the modern novel and short story, including novels by Baldwin, Malamud, Heller, Angus Wilson, Burgess, Paton, Camus, Silone, Richler, Moore, and shorter fiction by Hemingway, Faulkner, Fitzgerald, Kafka, Lawrence, and others.

3 hours per week for two terms.

380.02 Modern Fiction. Full Course.

J. Adamson

Readings in the works of leading modern writers including Faulkner, Ellison, Mailer, Hemingway, Greene, and Lawrence among others.

3 hours per week for two terms.

380.03 Modern Fiction. Full Course.

T. C. Faulkner

A study of twentieth century novels, British and American.

3 hours per week for two terms.

403 The Psychological Novel. Half Course. First term.

L. P. Nowicki

Study of the development of the modern psychological novel from the late Nineteenth-Century to the present, with emphasis upon the interrelationship of psychology and literature. Close analysis of the tendency to portray the subjective world by means of dream, interior monologue, and stream of consciousness will be stressed.

3 hours per week.

410.01

410.02 Twentieth Century Political Literature. Full Course.

I. Webb

Literary response to major political events. Readings will include: poetry of World War I, E. E. Cummings' *The Enormous Room;* Marxism: Brecht, John Dos Passos' USA, Malraux's Man's Fate; Catch-22; Black writers; Autobiography of Malcolm X; Baldwin's Go Tell It On The Mountain, Invisible Man; contemporary trends: Marcuse, Mailer, Herzog.

3 hours per week for two terms.

420 The Bildungsroman Since Goethe. Full Course.

M. R. Philmus

The course will attempt to determine the changing patterns in the theme of initiation into adult experience in nineteenth and twentieth- century fiction. Attention will be concentrated on English and American works, but some of the most representative continental examples will also be discussed.

3 hours per week for two terms.

430 Twentieth Century British Literature. Full Course.

K. Waters

Works by Butler, Wilde, Conrad, Shaw, Yeats, Eliot, Bennett, Lawrence, Joyce, Forster, Woolf, Waugh, Sillitoe, Osborne, Pinter. Emphasizing close study of the texts themselves, the course will consider also their relationship to prevailing and developing cultural theories and associated literary movements.

3 hours per week for two terms.

440 Twentieth Century Literature. Full Course.

T. C. Faulkner

Novels, drama, poetry.

3 hours per week for two terms.

450 British and American Literature. Full Course.

R. K. Martin

This course will be concerned with an introduction to the problem of literary works considered from the point of view of psychology. There will be an introduction to relevant works of Freud and Jung, followed by a treatment of certain themes among them, the Oedipus complex: studies in Oedipus Rex, Hamlet, and Sons and Lovers; the problem of psychological criticism - the case of Poe, and symbolical themes in fairy tales and other traditional material.

3 hours per week for two terms.

483 American Literature Since World War I. Half Course. First term.

R. K. Martin

An introduction to the major works of fiction of the 20th century in the United States. Authors treated will include Fitzgerald, Hemingway, Faulkner, McCullers, Ellison, Baldwin, and Capote. The major themes of innocence, of violence, of the failure of love will be considered.

484 Contemporary Writing in America. Half Course. Second term. R. K. Martin An exploration of the literature of the U.S. and Canada since World War II. An overview of the contemporary scene in the novel, the drama, and poetry. The non-fiction novel, Black Humour, "Living Theatre," the theatre of cruelty, and protest verse will be among the topics considered. Creative work will be encouraged. Prerequisite: 483 or another course in American literature.

3 hours per week.

490 American Literature. Full Course.

S. C. Russell

A study of the development of the American tradition in literature: the major writers, including Emerson, Thoreau, Hawthorne, Melville, Whitman, Emily Dickinson, Mark Twain, Crane, Dreiser, Henry James, F. Scott Fitzgerald, Hemingway, and T. S. Eliot.

3 hours per week for two terms.

500 American Literature, Full Course,

A. Newell

The growth of American literature in its various forms will be surveyed in relation to regional, sociological, ideological, literary and other forces that enter into the emerging patterns of American literature and culture. The best writings from colonial times to the present will be read.

3 hours per week for two terms.

520.02 Canadian Literature. Full Course.

The course will emphasize close reading of major twentieth century Canadian writers in the genres of the novel, the short story and poetry. Some discussion of pre-twentieth century writing will be included for historical perspective. Authors to be included: Richler, Callaghan, Maclennan, Roy, Moore, Laurence, Wilson, Layton, Cohen, and others.

3 hours per week for two terms.

530.02 Canadian Literature, Full Course,

J. Adamson

The course attempts to study the development of Canadian Literature from the 1830's to the present. Emphasis will be placed upon the major modern writers including Callaghan, Ross, Roy, Ringuet, Moore, Wiseman, Lowry, Layton and Cohen among others.

3 hours per week for two terms.

554 Continental Literature. Half Course. Second term.

An introduction to the major works of European literature of the 19th and 20th centuries. Intended as background for students of English or French literature. Readings will include Goethe's Werther and Faust, Dostoevsky's Crime and Punishment, Mann's Death in Venice, Weiss' Marat/Sade, among others. The works will be treated from a comparative, an historical, and an intrinsic point of view. 3 hours per week.

590 Literature, Ideas and Myths. Full Course.

R. S. Wareham

3 hours per week for two terms.

COURSES NORMALLY RESTRICTED TO STUDENTS TAKING HONOURS, OR MAJORING, IN ENGLISH

(In special circumstances, other students may be admitted to these courses with the permission of the professor concerned.)

610 Advanced Prose Composition. Full Course.

G. MacGuigan

(Not offered in 1969-70)

A theoretical and practical study of prose style to make the student familiar with and competent in the use of the main prose traditions. A reading of treatises on style from Aristotle and Longinus to the present time is required.

613.2 Practical Criticism. Half Course. An Elective for Second Year Students. A. G. Hooper Offered in both terms.

This course is designed (i) to lead students to consider how man uses language to communicate, (ii) to attempt to integrate the teaching of language and the teaching of literature, and (iii) to develop discrimination.

3 hours per week.

620 Theories of Criticism. Full Course. An Elective for Second Year Students.

The intention of this course is to acquaint students with the theoretical bases of the various approaches to literary criticism. We will begin with an intensive study of the relevant texts of Plato and Aristotle; and then go on to apply our discoveries to the theories of criticism inherent in some of the classical and modern critical documents. We will be especially concerned with the kinds of possible critical theories, and their assumptions about the nature of literature, and also with the function of the poet as critic. The course is open to a select number of second year honours and majors; any other interested students may not enrol without the permission of the instructor.

3 hours per week for two terms.

633.1

633.2 Poetry. Half Course. An Elective for Second Year Students. Offered in both terms.

K. Waters

The course attempts to understand the nature of poetry and poetic experience through examining the elements of a poem (broadly, language, rhythm and structural patterns) by practical analysis, criticism, short essays upon and class discussion of a number of poems. Some attention will be given to the dominant poetic theories and lyric forms from the Renaissance to the present. A central anthology, together with supplementary paperbacks of poetry and of commentary, will be used. 3 hours per week.

643.1

643.2 Drama. Half Course. An Elective for Second Year Students. Offered in both terms.

P. Davies

A study of drama, focusing on the major movements of the twentieth century, including an examination of realistic drama and the various reactions against it. Plays by Ibsen, Strindberg, Chekhov, Shaw, Pirandello, Lorca, Brecht, Ionesco, Pinter and Albee will be studied in order to explore the nature of drama as a genre.

645.1

645.2 Drama. Half Course. An Elective for Second Year Students.

Offered in both terms.

J. P. Zuckermann

The meaning of the word 'dramatic' will be explored in relation to plays of many different kinds and periods. Special attention will be given to the interplay between literary concepts of what makes a good play and theatrical considerations which have affected the nature of drama.

653.01

653.02 654.01

654.02 Fiction. Half Course. An Elective for Second Year Students.

Offered in both terms.

L. P. Nowicki and A. Raff

A study of the English and American novel from its origin in the Eighteenth-Century to the present. Representative novels are analyzed to illustrate the development of form and technique.

3 hours per week.

673.01

673.02 Survey of English Literature. From the Middle Ages to the Eighteenth Century. Half Course. First term. An Elective for Second Year Students.

A. T. Broes and L. Rahm

674.01

674.02 Survey of English Literature. From the Eighteenth to the Twentieth
Century. Half Course. Second term. An Elective for Second Year
Students. Prerequisite: 673.

A. T. Broes and L. Rahm

680 The European Background of English Literature. Full Course.

M. R. Philmus

This course is intended to acquaint English majors and honours students with the European literature of the Middle Ages and the Renaissance most frequently reflected in the works of English writers. Attention will be concentrated on Dante, Boccaccio, Montaigne, and Cervantes (among others), whose major productions will be studied both as individual creations and as examples of the literary or philosophical trends they represent.

3 hours per week for two terms.

704 Chaucer. Half Course. Second term.

A. G. Hooper

A study of The Canterbury Tales in general, and of three or four tales in particular.

3 hours per week.

730 Nature and Art in Renaissance Literature. Full Course. R. S. Wareham

3 hours per week for two terms.

733 Spenser and his Background. Half Course. First term. M. R. Philmus

This course is intended to examine Spenser's works - the Amoretti and The Faerie Queene in particular - and their relations to the pertinent literary traditions, both English and continental.

3 hours per week.

734 Elizabethan Literature. Half Course. Second term.

M. R. Philmus

This course is a thorough survey of Elizabethan non-dramatic literature; it is intended to study significant Elizabethan works both as individual creations and as examples of the most important trends in non-dramatic verse and prose of the time.

3 hours per week.

740.01

740.02 Shakespeare, Full Course.

A. Newell

Shakespeare's plays - histories, tragedies, comedies - will be studied in relation to the Elizabethan theater and its tradition; the social, historical, and literary setting; Shakespeare's development as a dramatic artist; the body of Shakespearian criticism. An emphasis will be placed on appreciating each play as an individual creation.

3 hours per week for two terms.

750 Shakespeare. Full Course.

J. P. Zuckermann

The plays of Shakespeare will be studied with special attention to Elizabethan theatrical conditions, methods of dramatic characterization and the nature of poetic drama. Some time will also be devoted to the Sonnets and *The Phoenix and the Turtle*.

760 Shakespeare. Full Course.

P. Davies

A study of Shakespeare's major plays with the emphasis on Shakespeare as a playwright working within a particular genre intended for stage production. Major tragedies, comedies, and histories will be studied for the purpose of determining how a Shakespearean play originally functioned and what it meant to Shakespeare's contemporaries.

3 hours per week for two terms.

765 Elizabethan and Jacobean Drama. Half Course. First term. A. G. Hooper Plays by some of the following will be studied: Kyd, Marlowe, Lyly, Heywood, Jonson, Webster, Tourneur, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford.

3 hours per week.

800 The Seventeenth Century. Full Course.

A. N. Raspa

A study of the poetry of the Metaphysical poets, Ben Jonson and Milton, and of the prose styles of Bacon, Browne and Donne. Special emphasis is placed on the literary forces converging in the works of these writers.

3 hours per week for two terms.

813 Earlier Seventeenth-Century Poetry. Half Course. First term.

Close reading of the poetry of Donne, Jonson, Herbert and Marvell. Course will include consideration of various approaches to 17th-century verse, as well as the social and intellectual milieu of the writers studied.

A close study of Milton's poetry and prose, the course will investigate such topics as his relation to the 17th century, the continuity of his thought, and his place in the epic tradition. First half of the semester will focus on the shorter poems and prose; second half on Paradise Lost, Paradise Regained, and Samson Agonistes.

833 The Eighteenth Century: Swift and Johnson. Half Course. First term.

M. Blanar

A study of the important prose and poetry of Jonathan Swift and Samuel Johnson with emphasis on satire, all within the framework of social and literary Restoration and Eighteenth-Century England.

Texts: Swift, Gulliver's Travels and Other Writing, Riverside; Swift, Selected Poems, Collier-MacMillan; Johnson, Rasselas, Poems and Selected Prose, Holt, Rinehart, Winston; Boswell, Life of Johnson, Oxford.

3 hours per week.

834 The Eighteenth Century Novel. Half Course. Second term. M. Blana

An examination of the rise of the novel as a literary form, and of the social, political and literary situation in England which gave rise to it and which allowed for its development during the Eighteenth Century.

Texts: Addison and Steele, Selections from The Tatler and The Spectator, Holt, Rinehart, Winston; Richardson, Pamela, Norton; Fielding, Joseph Andrews and Shamela, Riverside; Fielding, Tom Jones (unabridged), Modern Library College Editions; Smollett, Humphry Clinker, Holt, Rinehart, Winston; Sterne, Tristram Shandy, Holt, Rinehart, Winston; Goldsmith, The Vicar of Wakefield, Pocket.

840 The Restoration and Eighteenth Century. Full Course. J. P. Zuckermann

After a brief introduction to the historical and Philosophical background, the major authors and genres are taken up. These include Restoration Comedy, John Dryden, Jonathan Swift, Alexander Pope, Samuel Johnson, James Boswell, Oliver Goldsmith and the novel. The object of the course is to give the student an adequate understanding of the nature and importance of neoclassic literature.

3 hours per week for two terms.

843 The Augustan Age, 1660-1742. Half Course.

R. Philmus

This half-course study of the Augustan Age will concentrate on an understanding of the major works of Dryden, Swift, and Pope, as those works are defined in and against the context of Augustan ideology. The course is open to third and fourth year students of English.

3 hours per week.

844 The Augustans, 1742-1789. Half Course.

R. Philmus

Beginning where Eng. 843 left off, the introduction to the Augustan satirists continues with a consideration of select works of Johnson, Fielding, Sterne, and Smollett. Eng. 843 is recommended but is not required for enrolment.

3 hours per week.

870 The English Romantic Period. Full Course.

S. C. Russell

A study of the major writers, including Wordsworth, Coleridge, Blake, Byron, Keats, and Shelley. The course will deal with the development of the Romantic outlook as expressive of the changing views of man, nature, and society.

3 hours per week for two terms.

873 English Romantic Poetry. Half Course. First term.

S. C. Russell

A study of the significant poetry and prose of Wordsworth, Coleridge, and Blake, with a view toward gaining an intimate understanding of the premises of Romantic thought and the specific character of Romantic literary expression.

3 hours per week for one term.

874 English Romantic Poetry. Half Course. Second term.

S. C. Russell

A study of Byron, Keats, and Shelley, with special emphasis on the development of their thought and art as expressive of the Romantic outlook.

Prerequisite: English 873.

3 hours per week for one term.

875 Forms of the Fantastic in Romantic Literature. Half Course.
First term.

S. Poteet

An examination of one essential and influential aspect of the Romantic movement in English literature, as seen in the works of Blake, Byron, De Quincey, the Brontës, and others.

3 hours per week.

900 Nineteenth Century Fiction. Full Course.

I. Webb

Aspects of the novel from 1790 to 1910, emphasizing the relations between fiction and the political and social landscape. Readings will include major works from Jane Austen, Charlotte and Emily Bronte, Dickens, George Eliot, Mrs. Gaskell, Henry James, and Joseph Conrad.

3 hours per week for two terms.

910 Nineteenth Century Literature. Full Course.

A. Raff

The literature of the Victorian period, with emphasis on major poets and representative novelists. Attention will be equally divided between the nature and development of the Victorian viewpoint and the aesthetic qualities of the works examined.

3 hours per week for two terms.

913 Victorian Poetry, Half Course, First term.

A. Raff

For 1968-69 the poetry of Browning and Swinburne will be emphasized. Poems by Tennyson, Arnold, Fitzgerald, D. G. Rossetti, and Morris will also be studied. 3 hours per week.

914 Late Victorian and Edwardian Literature. Half Course. Second term.

S. Poteet

A study of the literature from 1870-1920. There is a special emphasis on the "aesthetic" movement, centering on the works of Oscar Wilde and G. M. Hopkins. The aesthetic poetry of W. B. Yeats leads us into a more complete examination of Yeats as the major poet of the era. The last section deals with the major novelists of the period (Hardy, Conrad, Woolf, Forster).

943 Twentieth Century British Literature. Half Course. First term.

K. Waters

A study of literary concerns and forms in the early Twentieth Century through representative works by Conrad, Shaw, Lawrence, Joyce and Yeats.

3 hours per week.

944 Twentieth Century British Literature. Half Course.

Second term.

K. Waters

British writers from the mid 1920's to the present, from among Forster, Woolf, Huxley, Waugh, Greene, Eliot, Auden, Thomas, Beckett, Osborne, Pinter, Angus Wilson, Murdoch.

973 Nineteenth Century American Literature. Half Course. First term.

R. K. Martin

An introduction to major works of the 19th century in the United States. Major emphasis will be placed on three writers to be studied in depth - Hawthorne, Melville, and James. Reading of several novels by each, discussion, and the preparation of a long essay.

974 American Literature, 1890-1960. Half Course. Second term.

L. P. Nowicki

A study of the development of American literature from the 1890's to the present. Emphasis will be placed upon major American prose writers of the Twentieth-Century to be chosen from the following: Crane, Norris, Cather, Anderson, Fitzgerald, Hemingway, Faulkner, Dos Passos, West, Steinbeck, Wolfe, Mailer, Salinger, Updike, Bellow, and Malamud.

3 hours per week for one term.

980 Canadian Literature.

(Not offered in 1969-70; but see 520 and 530).

For possible courses in comparative literature see Supplement.

FRENCH STUDIES - ÉTUDES FRANÇAISES

Associate Professor (Chairman)

Professors

Instructors

Gaston Laurion Gustave Labbé, Arsène Lauzière (on

sabbatical leave), Paul Toupin

Associate Professor Margaret Andersen

Gottlieb Andersen, Jean-Claude Badin, Assistant Professors Marthe Catry, Jean-Claude Klein, Paule Gagnon-Leduc, David Lévy (on study

leave). Martin Riegel, César Rouben, Leonard Sugden, Lila Van Toch

Lecturers Jean-Pierre Boucher, Gilles Charpentier,

Hubert Lacroix, Marie France Ligier, Annie Maillot, Eric Oxford, Odette Rigault, Maylis Tiffou, Normand Truchon, Alain Verron Alain Bartho, Gilbert Mongenot, François

Ulimann

Supervisor and Technician

(Language Lab.)

Ross Dolinsky Technician (Language Lab.) Guy Robitaille

A first year course in French is a prerequisite for any further course to be taken in the Department.

There is an array of five different first year courses: F.100, F.120, F.124, F.128 and F.130.

First year students who have four years of High School French may not take F.100 or F.120 for credit purposes. A placement test (written and oral) will be held on September 3 and 4; it will indicate in which of F.124, F.128 or F.130 each student should register.

First year students who have less than four years of High School French do not have to take the placement test and they will be directed to F.120; however, if they wish to register in F.124, F.128 or F.130, they should take the placement test in order to show evidence that they have the required proficiency. Those who have no knowledge of French at all will be directed automatically to F.100.

Courses are conducted in French. Students in some first and second year courses will attend laboratory sessions as part of their regular work; other students may be requested by their professors to attend similar sessions if the need is felt.

Students are advised to buy Harrap's Shorter French and English Dictionary for language courses and Quillet's French Dictionary for literature courses.

	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Philosophy Theology Elective Elective Elective FRENCH 230 FRENCH (the equivalent of [one] full course from the list of Honours and Major courses, except F.428, 432, 434, 440)	Philosophy FRENCH (the equivalent of [four] full courses from the list of Honours and Major courses)	Theology FRENCH 428 (if not yet taken) FRENCH (the equivalent of [two] full courses from the Honours and Major courses) FRENCH 500: oral comprehensive examination
5 courses	6 courses	5 courses	5 courses including F.500, oral comprehensive examination
Courses leading to a I	3.A. with a Major in Frenc SECOND YEAR	h THIRD YEAR	FOURTH YEAR
Discontinued—See	Classics English Philosophy	Philosophy Elective Elective	Theology Elective FRENCH (the equivalent of
Collegial Program	Theology FRENCH 230 FRENCH (the equivalent of [one] full course from the Honours and Major courses, except F.428, 432, 434, 440)	French (the equivalent of two full courses from the Honours and Major courses)	[three] full courses from the Honours and Major courses; F.428 is strongly recommended)

Note 1: Students honouring or majoring in French must take the equivalent of one full course on the XVIIth century (half course 321 and another half course), on the XVIIIth, XIXth and XXth centuries.

Note 2: Students honouring or majoring in French will have a faculty advisor with whom they should consult for their selection of courses; and in the case of Honours students, to prepare their list of readings for their oral comprehensive examination, F.500.

Note 3: In the course of their four-year programme, all students must take two courses in Philosophy and two in Theology.

Note 4: Courses with an even number are full courses; those with an odd number are half courses.

Note 5: "a" indicates a first term course, "b" a second term course.

FIRST YEAR COURSES

100 Language: Basic French.

F. Ullmann & Staff

An introduction to French using the method "Voix et Images de France". A lecture and laboratory course restricted to students with no previous knowledge of French. This course may not be taken for credit by students who have four years of High School French.

3 hours per week for two terms.

120 Language: Elementary French.

A. Bartho & Staff

Teaching French using the method "Voix et Images de France" (premier degré). A lecture and laboratory course restricted to students who have less than four years of High School French. A non-credit course for students with four years of High School French.

3 hours per week for two terms.

124 Language: Fluent Normative French.

L. Van Toch & Staff

Systematic practice in listening, speaking, reading and writing skills, based on spoken and written patterns, structural grammar and discussion of selected readings. A seminar-type lecture course with laboratory practice, for students who have completed successfully four years of High School French.

3 hours per week for two terms.

128 Language: Advanced French.

M. Andersen & Staff

Brief literary texts from different periods. Review of grammar and phonetics. Oral and written composition. Readings of works of contemporary French and French-Canadian authors. The course is designed for students who have a good knowledge of French.

3 hours per week. Two terms. Students may be asked to attend language laboratory sessions.

130 Littérature.

G. Charpentier et collègues

Initiation à la littérature française par l'étude d'une dizaine de textes. Les oeuvres au programme visent à développer chez l'étudiant le goût de la lecture. Aperçus sur la poésie, le roman et le théâtre français. Techniques de l'analyse littéraire et de la dissertation.

A literature survey course for freshmen who have a sound French schooling background of some ten years or its equivalent.

SECOND YEAR COURSES

200 Language.

A. Bartho & Staff

The second half of "Voix et Images de France" (premier degré). A lecture and laboratory course.

Prerequisite: French 100.

3 hours per week for two terms.

220 Language.

.G. Mongenot & Staff

A follow-up on F.120 with Voix et Images de France. A lecture and laboratory course.

Prerequisite: French 120.

3 hours per week for two terms.

224 Language.

L. Sugden & Staff

Terminal course for English speaking students with particular stress on oral expression. Review of syntax with emphasis on practical application. Conversation based on texts chosen for the program, present day topics found in journalism, periodicals, etc. Study and class discussion of several readily accessible literary works.

Prerequisite: French 124 or equivalent in Departmental test.

3 hours per week for 2 terms.

228 Language and civilization.

P. Leduc & Staff

Oral and written composition through readings and realia of French Canadian civilization. A lecture and practice course.

Prerequisite: French 128 or equivalent in Departmental test.

3 hours per week for two terms.

230 Advanced language.

Please see below.

COURSES NORMALLY RESTRICTED TO STUDENTS TAKING HONOURS OR MAJORING IN FRENCH

(In special circumstances, other students may be admitted to these courses with the permission of the department).

230 Langue: Cours et travaux pratiques de phonétique, de composition, de grammaire avancée et de méthodologie.

Staff

Les étudiants "Honours" et "Major" suivront ce cours dès leur inscription au département.

Condition préalable: F.128 ou F.130.

3 h. par semaine.

233a Stylistique: Principes généraux et travaux pratiques.

P. Toupin

Textes: Courault, L'Art d'écrire.

3 h. par semaine; un semestre.

235b Création littéraire.

J. C. Klein

3 h. par semaine; un semestre.

321b Littérature du XVIIe Siècle. Le théâtre et la dramaturgie classiques: Corneille, Racine, Molière.

P. Toupin

Textes: Polyeucte; Britannicus; L'Ecole des femmes; Lagarde et Michard, XVIIe Siècle.

3 h. par semaine; un semestre.

323a Littérature du XVIIe Siècle: Les moralistes, les penseurs et les orateurs.

G. W. Andersen

Textes: Descartes, Le Discours de la Méthode; Pascal, Pensées; La Rochefoucauld, Maximes; Bossuet, Oraisons funèbres et Sermons; La Bruyère, Les Caractères; Lagarde et Michard, XVIIe Siècle.

3 h. par semaine; un semestre.

325b Littérature du XVIIe Siècle: La fable, le roman, la littérature épistolaire, les mémoires.

C. Rouben

Textes: La Fontaine, Fables; Mme de Lasayette, La Princesse de Clèves; Mme de Sévigné, Lettres; Retz, Mémoires; Saint-Simon, Mémoires; Lagarde et Michard, XVIIe Siècle.

3 h. par semaine; un semestre.

332 Littérature du XVIIIe Siècle: Le roman et le théâtre au XVIIIe

Textes: Lesage, Gil Blas; Prévost, Manon Lescaut; Marivaux, Le Paysan Parvenu, Le Jeu de l'amour et du hasard; Montesquieu, Lettres Persanes; Voltaire, Zadig, Candide; Diderot, Le Neveu de Rameau; Rousseau, La Nouvelle Héloïse; Bernardin de Saint-Pierre, Paul et Virginie; Beaumarchais, Le Mariage de Figaro; Lagarde et Michard, XVIIIe Siècle.

3 h. par semaine.

334 Littérature du XVIIIe Siècle: Histoire des idées au XVIIIe Siècle. Staff

Textes: Fontenelle, Histoire des Oracles; Montesquieu, Lettres Persanes; La Mettrie, L'Homme machine; L'Encyclopédie, Morelly, Code de la nature; Helvétius, Textes choisis; Rousseau, Contrat social; d'Holbach, Textes choisis; Diderot, Entretien entre d'Alembert et Diderot; Supplément au voyage de Bougainville; Voltaire, Dictionnaire Philosophique.

3 h. par semaine.

341a Littérature du XIXe Siècle. Chateaubriand, Constant, Vigny, Balzac, Stendhal: le roman de l'inquiétude et de l'énergie.

l'énergie. M. Andersen Textes: Chateaubriand, René; Constant, Adolphe; Vigny, Servitude et grandeur

militaires; Balzac, Le Père Goriot; Stendhal, Le Rouge et le Noir.

3 h. par semaine; un semestre.

343b Littérature du XIXe Siècle. Flaubert, Zola, Huysmans: le roman réaliste, naturaliste et décadent.

L. Sugden

Textes: Flaubert, Madame Bovary, L'Education sentimentale; Zola, L'Assommoir, Germinal; Huysmans, A Rebours, Là-bas; Bourget, Le Disciple.

3 h. par semaine: un semestre.

345a Littérature du XIXe Siècle. Le Romantisme: la poésie et le théâtre.

P. Toupin

Textes: Hugo, Ruy Blas; Musset, Lorenzaccio; Poèmes choisis de Hugo, Lamartine, Vigny et Musset; Lagarde et Michard, XIXe Siècle.

3 h. par semaine; un semestre.

347b Littérature du XIXe Siècle. La poésie à partir de Baudelaire. M. Catry Théophile Gautier, Gérard de Nerval, Leconte de Lisle, Hérédia, Baudelaire, Rimbaud, Verlaine, Mallarmé.

3 h. par semaine; un semestre.

360 Littérature canadienne: Le roman et le conte. Origines, influences,

évolution. Etude d'oeuvres modernes.P. Leduc Textes: Savard, *Menaud maître-draveur*; Ringuet, *Trente arpents*; Roy, *Bonheur*

Textes: Savard, Menaud maître-draveur; Ringuet, Trente arpents; Roy, Bonheur d'occasion; Lemelin, Au pied de la pente douce; Giroux, Au delà des visages; Langevin, Poussière sur la ville; Thériault, Agakuk; Bessette, Le Libraire; Blais, M.C., Une Saison dans la vie d'Emmanuel; Ducharme, L'Avalé des Avalés.

3 h. par semaine.

364 Littérature canadienne: La poésie. Origines et influences; évolution thématique et esthétique.

Textes: Fréchette, Morin, Lozeau, Choquette (Coll. Classiques Canadiens); Nelligan, Poésies Complètes; Desrochers, A l'Ombre de l'Orford; Hertel, Poèmes d'hier et d'aujourd'hui; Saint-Denys Garneau, Poésies complètes; Grandbois, Poésies; Hébert. Poèmes; Lapointe, G., Ode au Saint-Laurent; Chamberland, P., Terre Québec; Sylvestre, G., Anthologie de la poésie canadienne-française; Tougas, G., Histoire de la littérature canadienne-française.

Leçons, séances de travaux pratiques et travaux de recherche.

3 h. par semaine.

367b Littérature canadienne: le théâtre.

Staff

3 h. par semaine: un semestre.

380 Littérature comparée: Les grands courants de la littérature

M. Andersen

Etude comparée de quelques oeuvres des XIXe et XXe Siècles. Cours, séminaires et conférences de professeurs invités.

Textes: Goethe, Les Souffrances du jeune Werther; Stendhal, Lamiel; Tourguéniev. Premier amour; Ibsen, La Maison de Poupée; Henry James, Daisy Miller and other short stories; Kafka, Le Procès; A. Breton, Nadja; Ezra Pound, Selected Poems; Camus, L'Exil et le Royaume; Beckett, En attendant Godot.

3 h. par semaine.

428 Langue: Histoire de la langue et linguistique.

M. Riegel

Introduction aux sciences de la linguistique. Histoire de la langue française. Cours obligatoire pour les étudiants "Honours" et fortement recommandé aux "Majors". Textes: F. de Saussure, Cours de linguistique générale; J. Perrot, La linguistique; P. Guiraud, La sémantique, La syntaxe du français, L'ancien français; A. Dauzat, Tableau de la langue française.

3 h. par semaine.

432 Littérature du Moven Age.

G. Laurion

Initiation à la langue et à la littérature du Moyen Age. Choix d'oeuvres épiques, romanesques et lyriques.

Textes: La Chanson de Roland; Tristan et Iseut; Chrétien de Troyes, Yvain; La Chastelaine de Vergi; Rutebeuf, Poèmes concernant l'Université; Villon, Poésies; Lagarde et Michard, Le Moyen Age. Leçons et séances de travaux pratiques.

3 h. par semaine.

434 Littérature du XVIe Siècle: La Renaissance et l'humanisme en France.

M. Riegel

Prose et poésie. Origines, évolution et oeuvres maîtresses.

Textes: Rabelais, Gargantua; Du Bellay, Défense et Illustration de la langue française, Regrets; Ronsard, Les Amours; Montaigne, Les Essais; D'Aubigné, Les Tragiques; Lagarde et Michard, XVIe Siècle.

3 h. par semaine.

440 Littérature du XXe Siècle: La Poésie.

P. Leduc

Evolution. Nouvelles tendances.

Textes: Claudel, Cinq grandes odes; Valéry, Poésies; Apollinaire, Alcools; Breton, Clair de terre; Eluard, Capitale de la douleur; Char, Le Poème pulvérisé; Michaux, Plume; Ponge, Le Parti-pris des choses; Breton, Les Manifestes du surréalisme.

3 h. par semaine.

442 Littérature du XXe Siècle: Le roman.

G. Labbé

Evolution. Structure et techniques romanesques. Thèmes.

Textes: Alain-Fournier, Le Grand Meaulnes; Gide, La Porte étroite; Proust, Du Côté de chez Swann; Mauriac, Thérèse Desqueyroux; Bernanos, Journal d'un curé de campagne; Malraux, La Condition humaine; Camus, L'Etranger; Sartre, La Nausée; Le nouveau roman. Lagarde et Michard, XXe Siècle.

3 h. par semaine.

443a Littérature du XXe Siècle: L'existentialisme.

L. Sugden

Textes: Montherlant, Service inutile, Les Bestiaires; Malraux, Les Conquérants, La Condition humaine; Sartre, La Nausée, L'Existentialisme est un humanisme; Simone de Beauvoir, L'Invitée; Camus, L'Etranger, L'Homme révolté; Beckett, Mol-

3 h. par semaine; un semestre.

445b Littérature du XXe Siècle: Le théâtre.

M. Andersen

Textes: Jarry, Ubu; Claudel, L'Annonce faite à Marie; Giraudoux, La Guerre de Troie n'aura pas lieu; Anouilh, Becket; Montherlant, La Reine morte; Sartre, Huis clos; Beckett, Fin de partie; Ionesco, Rhinocéros; Genêt, Le Balcon.

3 h. par semaine; un semestre.

451a Langue: Traduction avancée de textes littéraires de l'anglais au français.

Staff

3 h. par semaine; un semestre.

470 Civilisation française.

J. C. Badin

Le monde français: ses principales caractéristiques; unité et diversité. Les aspects de la France: les hommes, l'âme, la langue, les provinces.

La vie économique, politique et sociale de la France.

La vie intellectuelle, artistique et spirituelle de la France. L'évolution de la France. Le monde français et l'Amérique du Nord (le Canada): quelques comparaisons.

Texte: Camille Bauer, Panoroma de la France moderne.

3 h. par semaine.

500 Examen oral de fin d'études.

Pendant leur quatrième année, les étudiants "Honours" devront subir un examen oral devant jury portant sur 30 volumes choisis dans une liste de 75 à 100 titres et répartis sur tous les siècles. La réussite à cet examen donnera aux étudiants un "crédit" qui sera leur onzième au département d'études françaises.

NON-CREDIT COURSE

Corrective Phonetics.

M. Andersen

A course offered to all faculty and students that have some knowledge of French. It aims at correcting their pronunciation of French and at increasing their fluency in speaking that language. The course takes place in the language laboratory. 1 hour per week; 2 terms.

COMPARATIVE LITERATURE

For possible offerings in comparative literature, see the supplement to the calendar.

GEOTECHNICAL SCIENCE



Professor (Chairman) Assistant Professors D. J. McDougall

E. H. Chown, J. T. Jenkins, K. K. Mukherji

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR**
Discontinued—See	Chemistry 211	Chemistry 231	English
Collegial Program	Chemistry 212	Engineering 802	GEOT. Sc. 204
•	GEOT. Sc. 203	GEOT, Sc. 305	GEOT. Sc. 405
	GEOT. Sc. 310	GEOT. Sc. 306	GEOT. Sc. 406
	GEOT. Sc. 205	GEOT. Sc. 401	GEOT. Sc. 407
	GEOT. Sc. 303	GEOT. Sc. 403	GEOT. Sc. 408
	GEOT. Sc. 304	GEOT. Sc. 409	GEOT. Sc. 410B
	GEOT. Sc. 404	GEOT. Sc. 410A	Philosophy or
	Mathematics 121	Philosophy	Theology
	Philosophy	Physics 205	Theology
	Theology	Trysics 200	

^{*}Those students wishing to continue in Geotechnical Science will normally choose Geotechnical Science 202 as their first year Elective.

^{**}In the Fourth Year, qualified students may be permitted to take additional courses in either Chemistry, Engineering, Mathematics or Physics.

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Chemistry 211 Chemistry 212 GEOT. Sc. 203 GEOT. Sc. 310 GEOT. Sc. 205 GEOT. Sc. 404 Mathematics 121 Philosophy	Chemistry 231 GEOT. Sc. 305 GEOT. Sc. 306 GEOT. Sc. 401 GEOT. Sc. 405 Philosophy One Science Elective**	English GEOT. Sc. 406 and either (a), (b) or (c) (a) GEOT. Sc. 407 One Science Elective** (b) GEOT. Sc. 204 GEOT. Sc. 409 One Science Elective* (c) GEOT. Sc. 303 GEOT. Sc. 410 Philosophy or Theology

^{*}Those students wishing to continue in Geotechnical Science will normally choose Geotechnical Science 202 as their First Year Elective.

FIELD TRIPS AND FIELD SCHOOLS

Lectures and laboratory cannot successfully substitute for actual observation of geology in the field. Therefore, for all students, half or full day field trips to areas of geological interest are a normal adjunct to several courses. For students in the Major Programme, geological and geophysical field schools are conducted by staff members in the two weeks following the completion of examinations in the spring. Students following the General Programme are not required to take these field schools, but if suitably qualified, may be granted permission to do so by the Department.

SUMMER EMPLOYMENT

It is strongly recommended that prior to graduation at least one summer be spent in some phase of geological work. Although the Department of Geotechnical Science cannot guarantee summer employment, its students can normally expect to be engaged in suitable work, during the summer months, with government agencies or private companies.

201 Introduction to Geologic Mapping. Half Course.

Staff

(Not Given 1969-70)

Students are introduced to the use of transits, levels, compass, air photos, etc. Some elementary concepts of map making and descriptive Geometry are studied, and simple outcrop maps are constructed from notes obtained in the field.

Two week field school in May.

202 General Geology. Half Course.

D. J. McDougall

Elements of mineralogy, petrology, soil mechanics, structural geology, historical geology and geomorphology. Mineral, rock and soil specimens, topographic and geologic maps, and air photos are studied in the laboratory. Field trips are made to points of interest in and near Montreal.

Lectures: 3 hours per week for second term.

Lab.: 3 hours per week for second term.

203 Descriptive and Determinative Mineralogy. Half Course.

J. T. Jenkins

The lecture portion of the course is concerned with the classification and description of minerals in terms of their physical and chemical properties, compositions, geological environments, geographical occurrences, and uses. In the laboratory, simple physical and chemical tests are outlined, and then applied in identifying some 150 minerals.

Lectures: 1 hour per week for two terms.

Laboratory: 2 hours per week for two terms.

Text: Kraus, Hunt, and Ramsdell, Mineralogy, McGraw-Hill.

204 Historical Geology. Half Course.

K. K. Mukherji

Principles of stratigraphy; correlation and time concepts; geologic history of North America with emphasis on type sections; paleogeography tectonics; and organic evolution.

Lectures: 2 hours per week for one term.

Laboratory: 3 hours per week for 1 term.

Text: Moore, Introduction to Historical Geology. 2nd Ed. McGraw-Hill.

205 Morphological Crystallography. Half Course.

J. T. Jenkins

This course is an introduction to crystallography, in which a systematic but brief description of the morphology of the forms of some of the mineralogically important crystal classes is given.

Lectures: 2 hours per week for 1 term.

Laboratory: 3 hours per week for 1 term.

Text: Kraus, Hunt, and Ramsdell, Mineralogy. McGraw-Hill.

^{**}Elective chosen must be approved by Department.

303 Applied Geophysics. Half Course.

K. K. Mukherji

An introduction to geophysical methods of prospecting and of investigating subsurface structures. The theories, uses and limitations of various magnetic, electrical, gravitational and seismic methods are explained and compared. The practical operation of the instruments is reviewed and actual field results are obtained and

Prerequisite: Geotechnical Science 202. Lectures: 2 hours per week for one term.

Text: Dobrin, Introduction to Geophysical Prospecting. McGraw-Hill.

304 Field Geophysics. Half Course.

Field work involving small scale seismic, magnetic, gravimetric and electrical sur-

Prerequisite: Geotechnical Science 303.

Field Work: 2 weeks in May at the Loyola Geophysics Field School.

305 Structural Geology. Full Course.

F. H. Chown

Examination of geological structures and their origin. Methods of structural interpretation. Laboratory survey of graphical methods and exercises illustrating the analysis of practical problems.

Prerequisite: Geotechnical Science 202. Lectures: 2 hours per week for two terms. Laboratory: 3 hours per week for two terms. Text: Hills, Elements of Structural Geology. Wiley.

306 Elementary Petrology. Half Course.

A laboratory course in the identification of hand specimens of sedimentary, igneous and metamorphic rocks.

Lectures: 1 hour per week for 1 term. Laboratory: 2 hours per week for 1 term.

310 Invertebrate Paleontology. Half Course.

K. K. Mukherji

A systematic survey of invertebrate fossil forms with emphasis on stratigraphic occurrence, morphology and classification. Study of principles of evolutionary concepts, use of fossils in zonation and environmental influence.

Lectures: 2 hours per week for 1 term. Laboratory: 3 hours per week for 1 term.

Text: Beerbower, Search for the Past; An Introduction to Paleontology. 2nd Ed. Prentice-Hall.

401 Geomorphology. Half Course.

K. K. Mukherji

An advanced course in the study of landforms produced by the process of erosion and deposition by water, wind, glaciation and earth movements. The interrelationship of geologic processes, materials and structures, soil types, climatic conditions, etc., in the development of topographic forms is emphasized. Suites of maps and air photos plus one full day field trip are used to illustrate the lectures.

Lectures: 2 hours per week for one term. Lab.: 2 hours per week for one term.

Text: Thornbury, Principles of Geomorphology. Wiley.

402 Engineering Geology, Half Course,

Engineering properties of rocks. Ground water. The formation and mechanics of soils including structure, gradation, sedimentation, permeability, compressibility and shearing strength. Application of soil characteristics to typical geotechnical problems in bearing capacity, settlement and lateral earth pressure. Crustal movements and stability of slopes. Frost action in regolith. Laboratory work for experimental determination of above characteristics.

Lectures: 2 hours per week for one term. Lab.: 3 hours per week for one term.

403 Field Geology, Half Course.

Surface and underground field mapping methods. Preparation of geological maps, sections and reports from field notes, diagrams, air photos, etc.

Prerequisite: Geotechnical Science 202, 305, 306.

Field Work: 2 weeks in May at the Loyola Geology Field School.

404 Optical Crystallography. Half Course.

J. T. Jenkins

Lectures deal with the theoretical background necessary for the use of the petrographic microscrope. In the laboratory, oil immersion techniques for the determination of isotropic and anisotropic minerals in powder form are studied. If time permits, an introduction to the use of the four-axis Universal Stage is given.

Prerequisite: Geotechnical Science 205.

Lectures: 2 hours per week for one term.

Laboratory: 3 hours per week for one term.

Texts: Wahlstrom, Optical Crystallography. 3rd. ed., Wiley. U.S.G.S. Bull. 848, The Microscopic Determination of the Nonopaque Minerals. 2nd. ed.

405 Geology of Canada, Half Course,

K. K. Mukherji

Description of the geology of the major geomorphic subdivisions of Canada and the evaluation of the mineral resources of each. Reading assignments and colloquium are used to probe into specific problems.

Lectures: 2 hours per week for one term.

Colloquium: 1-3 hours per week for one term.

Text: Geology and Economic Minerals of Canada 4th ed. Econ. Geol. Series no. 1 of the Geological Survey of Canada.

406 Igneous and Metamorphic Petrology. Full Course.

The first part of the course deals with the chemistry, mineralogy, fabrics, classifications, and petrogenesis of the igneous rocks. This is followed by an examination of the scope of metamorphism and the relationships amongst metamorphism, magma, and orogeny. In the laboratory, a large number of igneous and metamorphic rocks are examined and described, employing megascopic and microscopic

Prerequisites: Geotechnical Science 203, 205, 404.

Lectures: 2 hours per week for two terms.

Lab.: 3 hours per week for two terms.

Texts: Huang, Petrology. McGraw-Hill. Moorhouse, The Study of Rocks in Thin Section. Harper. Deer, Howie & Zussman, An Introduction to the Rock Forming Minerals, Longmans, Canada.

407 Economic Mineral Deposits. Full Course.

E. H. Chown

The origins, types of occurrence and classification of metallic and non-metallic mineral deposits of economic importance.

Prerequisite: Geotechnical Science 305, 406.

Lectures: 2 hours per week for two terms. Lab.: 3 hours per week for two terms.

Text: Park and MacDiarmid, Ore Deposits, Freeman.

408 Geotechnical Laboratory. Full Course.

Staf

Major students in their final year are expected to show competence in isolating and examining a geological problem, using techniques available within the department, working in conjunction with an assigned faculty adviser. Course evaluation will be based on the student's performance in the investigation and on a short written report.

409 Sedimentary Petrology. Half Course.

E. H. Chown

The formation, occurrence and classification of sedimentary rocks. Laboratory includes a brief survey of techniques applied to unconsolidated sediments, but particular emphasis is placed on the microscopic examination of sedimentary rocks.

Prerequisite: Geotechnical Science 205, 404.

Lectures: 2 hours per week for one term.

Laboratory: 3 hours per week for one term.

Text: Pettijohn, Sedimentary Rocks - 2nd ed. Harper.

410a Geochemistry. Half Course.

D. J. McDougall

Geochemistry of the earth as a whole, the lithosphere, hydrosphere and atmosphere. The application of geochemistry to the search for ore-deposits. In the laboratory, the material discussed in the lectures is illustrated by using a variety of methods including geochemical calculations and trace element studies.

Lectures: 2 hours per week for one term.

Laboratory: 3 hours per week for one term.

Text: Brian Mason, Principles of Geochemistry. 3rd Ed., Wiley.; and selected references.

410b Mineral Physics. Half Course.

D. J. McDougall

Selected aspects of the formation and properties of minerals in relation to their solid state characteristics. Comparisons with the solid state characteristics of metals and artificial compounds.

Lectures: 2 hours per week for one term.

Laboratory: 3 hours per week for one term.

HISTORY



Associate Professor (Chairman) Associate Professors

Assistant Professors

Lecturers

F. G. W. Adams Rev. C. B. O'Keefe, S.J., D. C. Savage,

R. T. Coolidge (on leave)

J. T. Copp, J. E. Dotson, W. H. Hubbard (on leave), C. Schlacks, Jr.

D. Kubesh, J. Najarian, E. Wedemeyer

Sessional Lecturer Rev. J. Monet, S.J.

Part-time Lecturer M. Porter

Courses leading to an Honours B.A. in History					
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR		
Discontinued—See Collegial Program	HISTORY (Three Electives from General Courses) Philosophy Theology	HONOURS HISTORY TUTORIAL HISTORY (Two Electives from Honours Courses) Philosophy One Elective	HONOURS HISTORY TUTORIAL HISTORY (Two Electives from Honours Courses) Theology One Elective		

Of the four honours history courses in the third and fourth year, one may be in the same field as the tutorial course, two must be in other fields, and one may be in another department at the discretion of the student's tutorial advisor. Students in the honours history programme will be assigned a faculty advisor, who will normally be the director of their honours history tutorial and with whom they must consult concerning their selection of courses.

Students are required to take two theology courses. If this requirement is completed in the first and second years, students may substitute a second elective in fourth year.

There is a comprehensive oral examination for all honours history students towards the end of their final year.

Courses leading to a B.A. with a Major in History					
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR		
Discontinued—See Collegial Program	Classics 112 or 202 or 212 or * 221 French HISTORY (Two Electives from General Courses) Philosophy Theology	English HISTORY (Two Electives from General or Honours Courses) Philosophy One Elective	HISTORY (Two Electives from General or Honours Courses) Theology		

201-B History of Canada, Full Course.

M. Ballantyne

Survey of Canadian History. The course is arranged topically and the student is expected to read intensively in certain areas. The term work requirements are three book reviews, seven to ten pages each. The course will centre on the historiography of French Canadian history, the ideological development of English Canada in the 19th century, analysis of economic growth in Canada, the impact of the First World War and the period of post-war unrest and will conclude with an examination of problems in post 1945 Canadian society.

202 History of the United States. Full Course.

Survey of American history from settlement to the mid-twentieth century. The focus of the course is political, but considerable attention is devoted to social and intellectual movements. Students might read in advance Richard Hofstadter, et al., The Structure of American History or Carl Degler, Out of Our Past.

Lectures and Seminars: 3 hours a week for two terms.

203 History of Modern Europe, 1760-1919. Full Course.

J. Najarjan

Social, economic and political development of Europe from the ancien regime to the crisis of 1914-18. Emphasis is on changing patterns of social structure and evolution of political ideologies in response to the growth of modern industrial society. Two book-review essays required.

Recommended Reading: George Rudé, Revolutionary Europe 1783-1815, (Fontana), E. Knapton & J. Derry, Europe, 1815-1914 (Scribner's).

Lectures and seminars: 3 hours per week for 2 terms.

204 The World Since 1914, Full Course,

F. G. W. Adams

A discussion of the main trends of world history - political, diplomatic, socioeconomic and cultural - since World War I. Special attention will be given to European developments. Two essays and book reports.

Recommended Reading: H. S. Hughes, Contemporary Europe: A History (Prentice-

Lectures: 3 hours per week for two terms.

205 History of Medieval Europe. Full Course.

R. T. Coolidge

A study of Western Europe (France, Germany and Italy with occasional reference to neighboring areas) during the period 300 to 1300 A.D. The purpose of the course will be to discover the positive meaning of the term "medieval" by an examination of the political and cultural interaction of the Greco-Roman, Judeo-Christian and Germanic traditions, as revealed in primary sources. Readings will be assigned from a number of recent collections of translated contemporary source material which will form the basis of class discussions.

Required Reading: C. Warren Hollister, Medieval Europe.

Lectures: 3 hours per week for two terms.

206 Renaissance and Reformation. Full Course.

J. Dotson

History of Europe in the Age of Transition with special emphasis on Italy as a leader in social and cultural trends.

Recommended Reading: W. K. Ferguson, Europe in Transition; or Edward P. Cheyney, The Dawn of a New Era; Myron P. Gilmore, The World of Humanism.

207 History of England, Full Course.

R. E. Ruigh

A general survey of English history from the Anglo-Saxons to the present. Recommended Reading: The Pelican History of England, vols. 5-9 (Bindoff, Ashley, Plumb, Thomson, Thomson) (Penguin Books).

Lectures: 3 hours per week for two terms.

208 History of Russia. Full Course.

C. Schlacks, Jr.

Survey of the history of Russia from the origins to the present.

Required Reading: N.V. Riasonovsky, A History of Russia (Oxford U.P.). Selections from various source collections, e.g., Dmytryshyn, ed., Medieval Russia and Walsh, ed., Readings in Russian History.

Lectures: 3 hours per week for two terms.

209 Introduction to the History of Africa. Full Course.

D. C. Savage

Africa before the Europeans, Islamic and European Conquests, slavery, resistance movements and the rise of nationalism.

Texts: R. Rotberg, Political History of Tropical Africa; R. Oliver & A. Atmore, Africa Since 1800.

Lectures: 3 hours per week for two terms.

214 History of Modern Germany (1740-1945), Full Course.

J. Najarjan

General survey of German Central Europe. Special attention will be paid to the conjunction of political ideologies and socio-economic structures.

Lectures and discussions: 3 hours per week for two terms.

Recommended Reading: Koppel Pinson, Modern Germany, 2nd ed. Collier Macmillan, 1967. Hans Kohn, The Mind of Germany (Harper TB)

216 History of Ancient Greece and Rome, Full Course.

D. Brown

Listed as Classics 330 and may be taken either as a history or a classics course. Lectures: 3 hours per week for two terms.

217 History of China.

218 Problems in Canadian History (1760-1960).

D. Kubesh

An advanced course for majors and general students with a special interest in Canadian history. Students must have taken History 201 or its equivalent.

Lectures and seminars: 3 hours per week for two terms.

220 History of Modern Italy, Full Course,

J. Dotson

(Not offered in 1969-70)

221 Histoire du Canada Français 1760-1960. Full Course.

J. Monet, S.J.

224 Black-White Conflicts in U.S. History (1800 to the present).

Full Course.

M. Porter

Slavery and abolitionism, reconstruction, populism, Black resistance and the growth of protest movements in the 20th century.

226 History of American Foreign Policy, Full Course.

HONOURS COURSES

300 Britain and Ireland in the Victorian Age.

D. C. Savage

(Not offered 1969-70)

The intellectual, social, economic and political results of the rise of industrial society in Britain and Ireland; emphasis on the ideas and culture of the Victorians. Texts: A. Briggs, The Age of Improvement (Harper TB); Kitson Clark, An Expanding Society; D. Thomson, England in the 19th Century (Penguin).

301 History of Modern Canada (1896 to the present).

J. T. Copp

An intensive study of selected themes in modern Canadian history. Emphasis upon historiography, social and intellectual history and the development of parliamentary institutions.

A research paper is required in both terms.

Seminar: 2 hours a week for two terms.

303 Church and State in the Middle Ages.
(Not offered in 1969-70)

R. T. Coolidge

304 Nationalism in Africa.

D. C. Savage

A study of African resistance to European rule in terms of culture and politics.

306 Intellectual History of Russia. Peter the Great to the Crimean War (1700-1855).

C. Schlacks, Jr.

Discussions and regular brief reports in order to provide a foundation for a research paper, which will be read in class, discussed, revised and then submitted in final form at the end of the academic year.

Readings: Marc Raeff, Russian Intellectual History; Marc Raeff, Plans for Political Reform in Imperial Russia, Marc Raeff, Origins of the Russian Intelligentsia (1730-1905), Marc Raeff, Problems in European Civilization: Peter the Great-Reform or Revolutionary?

307 The French Revolution and Napoleon.

F. G. W. Adams

(Not offered in 1969-70)

308 Man in Contemporary Society.

Staf

A reading and discussion course on the key intellectual, social and political trends of the 20th century. Emphasis is placed on an interdisciplinary approach to such topics as political elites, nationalism in the Third World, etc.

Further information may be obtained from the Department Chairman.

Seminar: 2 hours per week for two terms.

309 Philosophy of History.

310 The Age of the Enlightenment (1660-1789).

F. G. W. Adams

A study of the main tendencies in European Thought from the age of Louis XIV until the French Revolution. Emphasis will be placed on developments in France. Two essays and book reports.

Recommended reading: P. Hazard, The European Mind (Penguin).

311 Tudor-Stuart England.

312 American Intellectual History.

A seminar which will emphasize American historiography. The writing of American history will be considered as a part of American intellectual history, with attention devoted to the works of major historians and to the reception and interpretation of their ideas by groups in American society. Students might read in advance the essays in A.S. Eisenstadt, ed., *The Craft of American History* and John Higham, "American History", on reserve in the Vanier Library.

313 The Russian Revolutions of 1905 and 1917.

C. Schlacks, Jr.

(Not offered in 1969-70)

315 Problems in Central European History Since 1815. W. H. Hubbard (Not offered in 1969-70)

316 Selected Problems in the Italian Renaissance.

U. E. Dotson Emphasis on social and economic developments. Topics of investigation may vary according to the preparation and interests of the students.

317 World War I: War and Revolution in European Society. W. H. Hubbard (Not offered in 1969-70)

318 American Liberalism in the 20th Century (Not offered in 1969-70)

319 Education in the Middle Ages.

R. T. Coolidge

(Not offered in 1969-70)

324 French-English Relations in Canada 1837-1917.

D. Kubesh

Faculty

326 Social Change.
See Interdisciplinary Studies 400

327 Medieval Institutions.

E. Wedemever

325 Economic Development in the Late Middle Ages.

J. E. Dotson

329 Alexander the Great and the Hellenistic World. Full Course. D. Brown
The life, times, conquests, and ideals of Alexander the Great. The history of the
Antigonid, Selencid, and Ptolemaic Empires. The Hellenization of the Ancient
World

Listed as Classics 351 H and may be taken either as a history or a classics course.

328 Marx, Freud and History.

C. Schlacks, Jr.

Discussions and regular brief reports in order to provide a foundation for a research paper. Each student will analyze a familiar historical event from the Marxist and Freudian point of view. The report will be discussed, revised and then submitted in final form at the end of the academic year.

Readings: Selected primary and secondary sources.

400 Honours History Tutorial.

The history tutorial programme is open to honours students in history only. All honours students in history must select an area of concentration from the list below at the end of second year. At the end of third year they must choose, in consultation with their tutorial directors, a research topic or other specialized work for intensive analysis during the fourth year. The history department will also accommodate those honours history students who desire to pursue an interdisciplinary or thematic interest in their third and fourth year. The tutorial course will be the equivalent of two full courses, and examinations will be given at the end of the third and fourth years. The tutorial directors may, at their discretion, assign summer reading as part of the course work.

- 1. North American History
- 2. British History
- 3. European History 400-1600
- 4. European History 1600 to the present
- 5. Africa and Asia

DEPARTMENT OF INTERDISCIPLINARY STUDIES.

200 Anatomy of Art.

This course will attempt to lead the student to a discovery of design, form and consciousness of monotony. Adequate practice in draftsmanship and life drawing will be included along with a critical evaluation of the students' work and the work of others. A balance will be maintained between abstract and real art. The student will practice articulation of criticism of his own work and the work of others. Ample use of slides will be made to cover the period from the Renaissance to the present.

400 Social Change (Proposed course). Full Course.

An interdisciplinary approach to problems of social change with emphasis on the contemporary world. The various faculty members will be drawn from diverse fields and disciplines.

Lectures and Seminars: 2 hrs. per week for two terms.

Texts and topics: to be announced.

MATHEMATICS



Associate Professor and

Chairman Professor

Associate Professors Assistant Professors

M. Faierman, N. K. Govil, K. N. Majumdar, R. C. Moore (Academic Secretary), J. B. Sabat, J. Soric, T. N.

A. J. Prillo Rev. E. O'Connor, S.J.

Srivastava
G. Bashconji, G. Brown, H. Fainsilber, Lecturers H. Greenspan, C. G. Hewson, A. Keviczky,

Sessional Lecturers Rev. J. G. McDonough, S.J., E. Storr

Courses leading to an Honours B.Sc. in Mathematics FIRST YEAR SECOND YEAR THIRD YEAR FOURTH YEAR				
I III I I I I I I I I I I I I I I I I	SECOND TEAR	INKU TEAK	FOURTH YEAR	
Discontinued—See	MATHEMATICS 220	MATHEMATICS 320	English	
Collegial Program	MATHEMATICS 231	MATHEMATICS 321	MATHEMATICS 42	
	MATHEMATICS 201	MATHEMATICS 330	MATHEMATICS 43	
	or 240	Philosophy	MATHEMATICS 49	
	MATHEMATICS 234	Physics 311	One or two from:	
	Philosophy	Theology	MATHEMATICS 40	
	Physics 205	111001063	MATHEMATICS 44	
	111,0100 200		MATHEMATICS 46	
			MATHEMATICS	
			470, 471	
			MATHEMATICS 48	
			Philosophy or	
			Theology	
Courses leading to a E	S.Sc. with a Major in Math	ematics		
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR	
Discontinued—See	MATHEMATICS 221	MATHEMATICS 234	English	
Collegial Program	MATHEMATICS 232	MATHEMATICS 331	MATHEMATICS 32	
	One from:	MATHEMATICS 320	MATHEMATICS 33	
	MATHEMATICS 201	Philosophy	MATHEMATICS 49	
	MATHEMATICS 240	Physics 311	One from:	
	Philosophy	,	MATHEMATICS 40	
	Physics 205		MATHEMATICS 44	
	Theology		MATHEMATICS 4	
	r noology		MATHEMATICS	
			470, 471	
			MATHEMATICS 48	
			Philosophy or	
			Theology	
Courses leading to a (Seneral B.Sc. in Mathemat	tics		
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR	
Discontinued—See	MATHEMATICS 221	English	MATHEMATICS 32	
Collegial Program	MATHEMATICS 232	MATHEMATICS 201	MATHEMATICS 33	
	Philosophy	MATHEMATICS 234	Philosophy or	
	Theology	MATHEMATICS 240	Theology	
	One Elective	Philosophy	One Elective	
	OTTO LIBERTO	i inioaopity	CHIE FIECTIAE	

NOTE: Those students who wish to proceed to an Honours B.A. in Mathematics or a B.A. with a Major in Mathematics should consult the chairman of the Department.

101 Algebra, Trigonometry and Analytic Geometry. Full Course.

C. G. Hewson & Staff

Logarithms; ratio and proportion; the progressions; permutations and combinations; the binomial theorem; probability. The trigonometric functions and solution of right angled triangles; measurements of angles; identical relations among the functions; trigonometric equations: addition formulas, graphs of trigonometric functions; solution of triangles.

A brief discussion of the straight line, circle, parabola, ellipse and hyperbola.

Lectures: 3 hours per week for two terms.

Text: Elementary Mathematical Analysis by H. Tate (Pitman).

110 Analytic Geometry and Calculus. Full Course.

A. J. Prillo

Rectangular co-ordinate system; graphs; equations of straight line, circle, conic sections; limits, continuous functions. The derivative, differentiation of algebraic functions; applications of the derivative. Antiderivatives. The definite integral. Applications of integration. Transformation of Axes. Families of curves. Differentiation and integration of trigonometric, logarithmic and exponential functions. Introduction to methods of integration.

Lectures: 3 hours per week for two terms (Engineering).

Text: Analytic Geometry and the Calculus by Goodman (MacMillan).

112 Algebra & Analytic Geometry. Full Course.

(Mathematics for Engineers)

Lectures: 3 hours per week for two terms.

Text: To be announced.

120 Algebra and Trigonometry. Half Course.

G. Bashconji and Staff

Numbers, Sets and Functions. Equations and Inequalities. Logarithms. Mathematical Induction. Binomial Theorem and Sequences. Systems of Linear Relations. Theory of Equations. The complex Number System. Matrices and Determinants. Trigonometric and Circular Functions. Solution of Triangles. Trigonometric identities. Solution of Trigonometric Equations. Graphs of Trigonometric Functions. Addition Formulas.

Lectures: 3 hours per week in first term.

Text: Algebra & Trigonometry (Revised Edition) by E. A. Cameron. (Holt, Rinehart & Winston, 1965).

121 Solid Vector Geometry. Half Course.

H. Kim and Staff

Introduction to three-dimensional Geometry. Introduction to Vector Spaces; Addition, subtraction and multiplication of vectors, matrices, Linear dependence and independence of vectors; simple applications. Length and inner product, applications of scalar product to Geometry. Vector product. Triple product. Surfaces. Other coordinate systems in 3-space; polar, cylindrical and spherical coordinates. Linear transformations.

Lectures: 3 hours per week in second term.

Text: To be announced.

131 Analytic Geometry and the Calculus. Full Course. G. Bashconji and Staff Algebraic Equations, Rectangular co-ordinate system. Graphs. Equations of straight line, circle, and conics. Limits. Continuous functions. The derivative. Differentiation of algebraic functions. Applications of integration. Transformation of axes. Families of curves. Trigonometric, logarithmic, and exponential functions. Lectures: 3 hours per week for two terms.

Text: Analytic Geometry and Calculus by Goodman (Macmillan).

201 Probability and Statistics. Full Course.

R. C. Moore

Frequency Distributions, probability, Binomial, Normal and Poisson Laws. Sampling Theory, Curve Fitting. Distribution of Chi-Squares, F and T. Hypothesis Testing. Quality control. Regression Theory. Analysis of Variance. Introduction to Experimental Design.

Lectures: 3 hours per week for two terms.

Text: To be announced.

202 Elementary Statistics. Half Course.

R. C. Moore and Staff

Empirical frequency. Distributions and Descriptive Measures; Elementary Probability; Populations, samples and Theoretical Distributions; Sampling Distributions; Estimation of Confidence Intervals; Tests of Hypotheses; two sample techniques; tests for goodness or fit; Regression and Correlation; Analysis of Variance.

Lectures: 3 hours per week for one term (for Non-Math. students).

Text: Elementary Statistics. P. G. Hoel (Wiley).

203 Theory of Interest. Half Course.

R. C. Moore and Staff

Simple and compound interest; discounts, annuities certain; sinking funds; bonds; elementary interpolation.

Lectures: 3 hours per week for one term (Commerce).

Text: To be announced.

205 Calculus, Full Course,

A. J. Prillo

A first course aiming to cover as completely as possible the ordinary techniques and applications of calculus.

Limits of functions, differentiation and integration of polynomials with applications; second derivative and differentiation of algebraic, exponential and logarithmic functions; curvature; definite integral. Differentiation and integration of trigonometric functions; methods of integration; improper integrals; applications of the definite integrals; approximate integrals; partial derivatives, multiple integrals; expansion of functions.

Lectures: 3 hours per week for two terms.

Text: Middlemiss, Differential and Integral Calculus.

210 Analytic Geometry and Calculus. Full Course.

M. Faierman

A continuation of Math. 110.

Methods of integration. Indeterminate forms and improper integrals. Two and three dimensional vector geometry. Polar, cylindrical and spherical co-ordinates. Functions of more than one variable. Partial differentiation. Multiple integrals. Introduction to elementary differential equations.

Lectures: 3 hours per week for two terms (Engineering).

Text: Analytic Geometry and the Calculus by Goodman (Macmillan).

212 Algebra. Full Course.

H. Fainsilber

Inequalities, complex numbers, theory of equations. Determinants and matrices; convergence and divergence of series, Taylor and MacLaurin series.

Lectures: 2 hours per week for two terms. (Engineering)

Text: To be announced.

220 Algebra. Full Course.

Rev. E. O'Connor, S.J.

The first part of this course aims at an accurate working familiarity with the following topics: real numbers; decimal approximations; abbreviated methods of computations; inequalities; complex numbers; formal and functional properties of polynomials; polynomial equations; rational functions.

The second part embraces the following topics: solution of cubic and quartic equations by radicals; systems of linear equations; determinants; matrices; linear transformations (projecture and complex); symmetric functions of the roots of an equation; approximation of irrational numbers by rationals; impossibility of angle trisection by ruler and compass; sequences; limits; summation of series.

Lectures: 3 hours per week for two terms. (Honours Math. only)

Reference: Courant and Robbins. What is Mathematics? (Oxford)

221 Introduction to Modern Mathematics. Full Course.

N. Govil

The integers; the rational and real number systems; infinite sequences and series; the Cauchy convergence criteria; inequalities, introduction to complex numbers; some elementary functions of complex variable; exponential, sine and cosine functions, Euler identity, extraction of roots, logarithmic function; polynomials and polynomial equations and their graphs; fundamental theorem of algebra; roots of polynomial equations; determinants and their applications; matrices; multiplication of matrices, inverse of a matrix, matrix solution of system of equations; vector analysis.

Lectures: 3 hours per week for two terms.

Text: Algebra & Vector Geometry by R. G. Stanton & K. D. Fryer. (Holt, Rinehart & Winston, 1965).

231 Advanced Calculus. Full Course.

T. Srivastava

Methods of integration, indeterminate forms and improper integrals. Infinite Series. Taylor's and McLaurin's Series. Functions of more than one Variable. Continuity. Partial Differentiation. Multiple Integrals. Line and Surface Integrals. Introduction to Complex Variables.

Lectures: 3 hours per week for two terms.

Text: Advanced Calculus by Sokolnikoff (McGraw-Hill).

232 Analytical Geometry and Calculus. Full Course. I. Benjamin and Staff

A continuation of Math 131.

Methods of Integration. Indeterminate forms and Improper Integrals. 2 and 3-dimensional Vector Geometry. Polar Coordinates. Infinite series. Functions of more than one variable. Partial Differentiation. Multiple Integrals.

Lectures: 3 hours per week for two terms.

Text: Analytic Geometry and the Calculus by Goodman (Macmillan).

233 Algebra and Calculus. Full Course.

I. Benjamin

An introductory course aiming to cover the ordinary techniques and applications of calculus. The course will include topics in Algebra and elementary differential equations.

Lectures: 3 hours per week for two terms.

Text: To be announced.

234 Differential Equations. Full Course.

M. Faierman and Staff

Equations of first order. Equations of first order and degree higher than the first. Singular solutions. Linear equations with constant coefficients. Variation of parameters. System of linear equations. Solution by Laplace transform. Simple equations with variable coefficients. Fourier series; series solution.

Boundary value problems. Sturm Liouville problems. Existence and uniqueness theorems. Lagrange's partial differential equation. Linear partial differential equation with constant coefficients. Separation of variables. Applications.

Lectures: 3 hours per week for two terms.

Text: Differential Equations by Ross (Blaisdell).

240 Numerical Methods. Full Course.

G. Brown

A first course in numerical methods with aid of IBM 1620. Elementary Finite Differences, Solution of equations. Computation with series and integrals. Linear systems and matric methods. Difference equations and relaxation methods. Numerical solutions of differential equations. Principles of automatic computation; methods of Computer programming.

Lectures: 3 hours per week for two terms.

Text: To be announced.

312 Differential Equations. Full Course.

G. Brown

First-order ordinary differential equations. Linear equations with constant coefficients. Laplace transforms. Solutions in series. Systems of linear equations. Boundary value problems. Numerical methods. Introduction to partial differential equations. Introduction to integral equations.

Lectures: 2 hours per week for two terms. (Engineering)

Text: Differential Equations with Applications by Ritgers & Rose (McGraw-Hill, 1968).

313 Engineering Mathematics. Full Course.

T. Srivastava

Vector Analysis. Introduction to partial differential equations. Legendre functions. Bessel functions. Fourier series. Complex Analysis up to conformal mapping. Lectures: 2 hours per week for two terms.

Text: Advanced Engineering Mathematics by Kreyszig (Wiley).

320 Linear Algebra. Full Course.

J. Soric

The following topics are covered: linear equations, vector spaces, linear transformations, polynomials, determinants, invariant direct - sum decompositions, the rational and Jordan forms, inner product spaces, bilinear forms.

Lectures: 3 hours per week for two terms.

Text: To be announced.

321 Modern Algebra. Full Course.

K. N. Majumdar

This course is an introduction to modern abstract algebra. It includes group theory, rings and their properties, division rings, quaternions, fields, mappings of algebraic systems, rudiments of Galois theory of equations and Galois fields.

Lectures: 3 hours per week for two terms.

References: A survey of Modern Algebra by Birkhoff and Maclane; Topics in Algebra by I. N. Herstein; Introduction to Modern Abstract Algebra by D. N. Burton (Addison Wesely).

330 Real Analysis. Full Course.

K. N. Majumdar

This course is an introduction to rigorous mathematical analysis. It thoroughly covers elementary set theory, theory of sequences, series, tests of convergence, inequalities, real variable theory and Riemann's integration theory.

Lectures: 3 hours per week for two terms.

References: Theory and application of infinite series by K. Knopp (Dover): Mathematical Analysis by Tom M. Apostol; Mathematical Analysis by T. M. Flett (McGraw-Hill); Methods of Real Analysis by R. R. Goldberg (Blaisdell).

331 Advanced Calculus, Full Course.

N. Govi

Limits, continuity, differentiability of functions of several variables; implicit and inverse function theorems: multiple and line integrals; integrals as functions of parameters; improper integrals; complex analysis.

Lectures: 3 hours per week for two terms.

Text: To be announced.

332 Advanced Calculus. Full Course.

I. Benjamin

Limits and continuity of a function of two variables; partial differentiation; multiple and line integrals; infinite series; improper integrals. Differential equations.

Lectures: 2 hours per week for two terms. (Chemistry)

Text: To be announced.

401 Mathematical Statistics, Full Course,

R. C. Moore

Probability. Discrete and continuous random variables. Distribution functions. Probability generating functions. Characteristic functions. Normal chi-square and F-distributions. Sampling distributions. Confidence intervals, tests of hypotheses. Sufficient statistics, maximum likelihood estimation. Correlation, regression.

Lectures: 3 hours per week for 2 terms.

Text: Statistical Theory - Lindgren (Macmillan).

421 Special Topics in Algebra. Full Course.

H. Kim

This is a continuation of Mathematics 321.

It includes Rings and Modules, Structure of Groups, Lattices, Categories and adjoint functors, and Multilinear Algebra.

Lectures: 3 hours per week for two terms.

Text: Algebra by MacLane & Birkhoff (MacMillan, 1967).

430 Real and Complex Analysis. Full Course.

Rev. E. O'Connor, S.J.

A continuation of Mathematics 330. Functions of a Real Variable; Functions of a Complex Variable.

Lectures: 3 hours per week for two terms.

Texts: The theory of Functions by Titchmarsh (Oxford).

Theory of Functions: Part II by K. Knopp (Dover).

440 Numerical Analysis. Full Course.

G. Brown

Polynomial approximation, interpolation. Numerical differentiation, quadrature, and summation. Numerical solution of ordinary differential equations. Functional approximations, least squares techniques, minimum maximum error techniques. Solution of nonlinear equations. Solution of simultaneous linear equations. Calculation of eigenvalues and eigenvectors of matrices.

Lectures: 3 hours per week for two terms.

Text: A First course in Numerical Analysis by A. Ralston (McGraw-Hill, 1965).

460 Introduction to Topology. Full Course.

J. Soric

This is an introductory course in point - set topology, with a considerable stress on metric spaces. The standard topics are covered: sets and functions, metric spaces, topological spaces, compactness, separation axioms, connectedness, approximation. Lectures: 3 hours per week for two terms.

Prerequisite: Math 330 or Permission of Instructor.

Text: Introduction to Topology and Modern Analysis by Simmons (McGraw-Hill).

470 Tensor Analysis. Half Course.

T. Srivastava

Transformation Laws of Contravariant, covariant and relative tensors; connections, covariant and intrinsic derivatives. Curvature tensors. Parallel displacement. Bianchi and Veblen identity. Riemannian metric, christoffel symbols. Curvature tensors with respect to christoffel symbols. Differential operators, geodesics, geodesic coordinates. Riemannian curvature.

Lecture: 3 hours per week, first term.

Text: To be announced.

471 Differential Geometry. Half Course.

T. Srivastava

Conformal geometry. Orthogonal basis. Curl of congruence. Canonical congruences. Gaussian and Riccian curvature. Existence of normals. Gauss formula. Tensor derivative of the normal vector, lines of curvature. Generalize Mainardi-Codazzi and Gauss equations. Flat space. Subspaces of a flat space.

Lectures: 3 hours per week, second term.

Text: To be announced.

480 Number Theory. Full Course.

K. N. Majumdar

This course covers the standard classical results of Fermat, Euler, Gauss and others relating to arithmetical functions, theory of congruences, detailed study of quadratic congruences, some additive number theory, Bertrand "postulate," elementary distribution theory of primes.

Lectures: 3 hours per week for two terms.

References: An introduction to the Theory of Numbers by Hardy & Wright (Oxford)

Topics in Number Theory, Vol. I and II by Le Veque.

490 History of Mathematics. Half Course.

I. Shtern

The development of Mathematics from ancient to modern times, including study of prominent mathematicians and their works. Problems will be worked using both modern and historical approaches.

Lectures: 1 hour per week for two terms.

Text: An introduction to the History of Mathematics by H. Eves (Rev. Edition) (Holt, Rinehardt & Winston).

N. P. Yalamow A. Antolin

Associate Professor
Assistant Professors

U. Sautter, C. Di Michele, H.

Famira-Parcaetich, E. Ottolenghi, A.

Costanzo, M. Trsic

Sessional Lecturer

N. Suvin

PREAMBLE

The Department of Modern Languages and Linguistics offers instruction in German, Italian, Spanish, Russian languages and literatures, and in Linguistics.

Regular and special students may take Electives in any of these five disciplines, or a Major in language and literature (German, or Italian, or Spanish), or a Double Major in any combination of German, Italian, Spanish languages and literatures. The chosen areas of concentration for a B.A. with a Double Major will be known hereafter as Maj. Subject (1) and Maj. Subject (2).

The teaching in each Section of the Department is based on Applied Linguistics, involving an up-to-date methodology, modern laboratory facilities and constant tendency towards a life-like audio - visual linguistic atmosphere.

GERMAN LANGUAGE AND LITERATURE

100 Elementary German

An introductory course for students with little or no knowledge of German.

3 hours per week for two terms.

Lab: 1 hour per week for 2 terms.

120 Intensive Elementary German

A course designed for students with some knowledge of German. Phonetics, structural grammar, composition and selected readings.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

200 Intermediate German

Practice in grammar and conversation; composition; readings from modern German authors.

3 hours per week for two terms.

Lab: 1 hour per week for 2 terms.

270 German Composition and Translation

A course designed particularly for students majoring in German or Modern Languages. Language practice through applied patterns. Composition and translation. Admission only with special permission of the instructor.

3 hours per week for 2 terms.

310 Survey of German Literature

A chronological consideration of the main currents of German literature from the 16th to the 20th centuries. Selected readings, composition and conversation.

3 hours per week for 2 terms.

330 20th Century German Literature

A review of the most important writers of the period. Selected readings, composition and conversation.

3 hours per week for 2 terms.

370 Advanced Stylistics

Introduction to comparative stylistics. Vocabulary expansion by word formation and derivation, by synonymy and idiomatic structures. Selected grammar problems. Analysis of texts.

3 hours per week for 2 terms.

430 Literature of the Romantic period

Romanticism as a universal attitude. Writings of the major Romantic authors; their theories and realizations.

3 hours per week for 2 terms.

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
	Classics	German	German
_==	French	German	German
Discontinued—See	English	Philosophy	German
Collegial Program	German	Theology	Theology
	Philosophy	Elective	Elective
	Elective (+)		
Courses leading to a l	3.A. with a Double Majo	r in Modern Languages:	
	SECOND YEAR	r in Modern Languages: THIRD YEAR	FOURTH YEAR
Courses leading to a E FIRST YEAR	SECOND YEAR Classics		
FIRST YEAR	SECOND YEAR Classics English	THIRD YEAR	Maj. Subj. 1
FIRST YEAR Discontinued—See	SECOND YEAR Classics English French	THIRD YEAR Maj. Subj. 1	Maj. Subj. 1 Maj. Subj. 1
FIRST YEAR	SECOND YEAR Classics English French Maj. Subj. 2	THIRD YEAR Maj. Subj. 1 Maj. Subj. 2	Maj. Subj. 1 Maj. Subj. 1 Maj. Subj. 2
FIRST YEAR Discontinued—See	SECOND YEAR Classics English French	THIRD YEAR Maj. Subj. 1 Maj. Subj. 2 Maj. Subj. 2	Maj. Subj. 1 Maj. Subj. 1

⁽⁺⁾ N.B. In case of insufficient language performance the coordinator of the section may decide that, in place of an Elective, an additional language course must be taken.

ITALIAN LANGUAGE AND LITERATURE

100 Elementary Italian

A basic introduction to the language for students with little or no knowledge of Italian. This course is designed to develop understanding, speaking, and writing of Italian.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

120 Intensive Elementary Italian

An elementary course for students with a sound knowledge of spoken Italian. Emphasis on speaking, reading, and writing of the language.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

200 Intermediate Italian

Further practice in speaking, reading, and writing, with a systematic review of grammar. Introduction to some aspects of Italian literature and civilization.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

270 Italian Composition and Conversation

A course designed primarily for students wishing to specialize in Italian and Modern Languages. Emphasis on speaking, reading, and writing, with a systematic review of grammar. Introduction to Italian literature and civilization.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

300 Italian Civilization

A survey of Italy's cultural heritage as expressed in selected historical, literary, and artistic works.

3 hours per week for 2 terms.

310 Survey of Italian Literature

A history of Italian literature, from the Middle Ages to the present. Emphasis on the major writers of Italy.

3 hours per week for 2 terms.

330 Italian Literature of the Twentieth Century

Evolution of Italian literature, since 1900. A study of representative works of poetry, drama and novel. Emphasis on: Pirandello, Ungaretti, Montale, Quasimodo, Silone, Pavese, Moravia.

3 hours per week for 2 terms.

370 Stylistics

Analysis of literary styles. Course designed for students majoring in Italian.

3 hours per week for 2 terms.

420 Literature of Renaissance

The rise of humanism and Renaissance in Italy. A study of representative works of the Fifteenth and Sixteenth centuries. Emphasis on: Lorenzo de' Medici, Poliziano, Castiglione, Machiavelli, Ariosto, Tasso.

3 hours per week for 2 terms.

430 Literature of the Seventeenth and Eighteenth Centuries

A study of the principal literary trends of the seventeenth and eighteenth centuries. Emphasis on: Marino, Metastasio, Vico, Parini, Goldoni, Alfieri.

3 hours per week for 2 terms.

480 Supervised Study

A course designed to meet individual needs and interests of advanced students. Guided readings in Italian literature under the supervision of the Department. Written and oral criticism of the work studied.

3 hours per week for 2 terms.

490 Research Essay

Open only to advanced students. Under the guidance of the Department, a student writes a graduating essay in Italian. Students wishing to register for this course should notify the Department during their third year.

	B.A. with a Major in ITA	LIAN:	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See	Classics	Italian	Italian
Collegial Program	English	Italian	Italian
	French	Philosophy	Italian
	Italian	Theology	Theology
	Philosophy Elective	Elective	Elective
Courses leading to a l	B.A. with a Double Majo	r in Modern Languages:	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See	Classics	Maj. Subj. 1	Maj. Subj. 2
Collegial Program	English	Maj. Subj. 2	Maj. Subj. 2
	French	Maj. Subj. 2	Maj. Subj. 1
	Maj. Subj. 1	Philosophy	Maj. Subi. 1
	Maj. Subj. 2	Theology	Theology

SPANISH LANGUAGE AND LITERATURE

100 Elementary Spanish

Essentials of pronunciation and grammar. Composition, dictation, oral and written exercises. Graded readings of selected texts.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

120 Intensive Elementary Spanish

Spoken and written patterns. Phonetics and structural grammar. Oral and written exercises. Discussions based on selected readings.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

200 Intermediate Spanish

A study of Spanish language through selected texts. Grammar review. Emphasis on conversation and essay writing. Introduction to Spanish and Latin-American civilizations.

Prerequisite: Spanish 100 or 120, or the permission of the instructor.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

270 Spanish Composition and Conversation

A course designed especially for students majoring in Spanish or Modern Languages. Language practice through applied patterns. Composition and conversation, with a systematic review of grammar.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

300 The Spanish Civilization

The Spanish civilization in the Old and in the New worlds. This course will be illustrated with audio-visual aids.

Prerequisite: Spanish 200 or the permission of the instructor.

3 hours per week for 2 terms.

310 Survey of Spanish Literature

The evolution of Spanish literary trends from the Middle Ages to the present. A detailed study of the language through Spanish literature, explained with audiovisual aids.

3 hours per week for 2 terms.

330 20th Century Spanish Literature

From Modernism to the present. The generation of 1898. Novel, theatre, essay and poetry. The poetic world of Juan Ramón Jiménez. Lorca's generation. Literary trends since the Civil War.

3 hours per week for 2 terms.

370 Analysis of texts and Advanced Stylistics

Textual study emphasizing the different styles of selected masterpieces of the Spanish literature. Creative composition and comparative stylistics.

3 hours per week for 2 terms.

450 Hispanic-American Literature

Precolombian and Colonization periods. Independence and Romanticism. Particular emphasis on Modernism and present-day literary currents. Essay writing. Seminars.

3 hours per week for 2 terms.

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See	Classics	Philosophy	Spanish
Collegial Program	English	Spanish	Spanish
Contagnan i regitari	French	Spanish	Spanish
	Philosophy	Theology	Theology
	Spanish	Elective	Elective
	Elective		
	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Courses leading to a I FIRST YEAR Discontinued—See		THIRD YEAR Maj. Subj. 1	FOURTH YEAR Maj. Subj. 1
FIRST YEAR Discontinued—See	SECOND YEAR	THIRD YEAR	Maj. Subj. 1 Maj. Subj. 1
FIRST YEAR	SECOND YEAR Classics	THIRD YEAR Maj. Subj. 1	Maj. Subj. 1 Maj. Subj. 1 Maj. Subj. 2
FIRST YEAR Discontinued—See	SECOND YEAR Classics English	THIRD YEAR Maj. Subj. 1 Maj. Subj. 2	Maj. Subj. 1 Maj. Subj. 1
FIRST YEAR Discontinued—See	SECOND YEAR Classics English French	THIRD YEAR Maj. Subj. 1 Maj. Subj. 2 Maj. Subj. 2	Maj. Subj. 1 Maj. Subj. 1 Maj. Subj. 2

RUSSIAN LANGUAGE AND LITERATURE

100 Elementary Russian

An elementary course in reading, writing and grammar for students with little or no knowledge of Russian.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

200 Intermediate Russian

Review of and practice in Russian grammar, composition, reading and conversation with some material from modern Russian writers.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

LINGUISTICS

100 Introduction to General Linguistics

Language phenomenon and linguistic documentation. Languages of the world: the Indo-European complex. Diachrony and Synchrony: basic concepts and methods. The theory of language: analysis of speech units and language evolution.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

200 General Phonetics and Phonology (Phonemics)

Speech as a system of oral communication. Nature and analysis of speech sounds: physiological and acoustical aspects. Articulation and intonation. Phenomena of phonetical combinations: phonemics. Phonological schools. Transcription: the I.P.A. system.

3 hours per week for 2 terms.

Lab: 1 hour per week for 2 terms.

Associate	Prof	fessors.

J. P. Doyle (Chairman), R. C. Hinners, A.

S. Kawczak, J. G. McGraw, V. J.

Assistant Professors

McNamara, J. D. Morgan B. Cavanaugh, E. Egan, B. Flynn, E. Joos,

H. H. Lau, D. Park, M. F. Reidy, P.

Restuccia

Lecturers G. Beretta, C. Gray, D. O'Connor, C.

O'Neill

Courses leading to an	Honours B.A. in Philosop	hy.	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Classics 112 or 202 or 212 or 221 Language PHILOSOPHY 200 HISTORY OF PHILOSOPHY Theology One Elective	HISTORY OF PHILOSOPHY PHILOSOPHY SEMINAR PHILOSOPHY (Two Electives) Theology	HISTORY OF PHILOSOPHY PHILOSOPHY SEMINAR PHILOSOPHY (Two Electives) One Elective
Courses leading to a l	3.A. with a Major in Philo	sophy.	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Classics 112 or 202 or 212 or 221 English French HISTORY OF PHILOSOPHY PHILOSOPHY 200 Theology	HISTORY OF PHILOSOPHY PHILOSOPHY SEMINAR Theology Two Electives	HISTORY OF PHILOSOPHY PHILOSOPHY SEMINAR Three Electives

NOTE: The requirement in Philosophy is satisfied by Philosophy 200, plus one course from the 300 series.

Courses numbered 320-329 and 420-429 are scheduled to be available to students in the Faculty of Science, and are normally restricted to them.

Courses numbered 330-339 are scheduled to be available to students in the Faculty of Commerce, and are normally restricted to them.

Courses numbered 500-519 are open to Philosophy Majors and Honours students, and to others with the permission of the Department.

200 Introduction to Philosophy.

Staff

A consideration of major problems in philosophy and types of answers given to them. This course is a prerequisite for any further course.

Lectures: 2 hours per week for two terms.

305 Analytic Philosophy.

C. Gray

Close classroom study of Ludwig Wittgenstein's two classics, *Tractatus* (1st term) and *Investigations* (2nd term). Personal research on preparatory philosophers and other analysts (1st term), and on alternative theories of language (2nd term). Theory and practice of a methodological philosophizing.

Texts: L. Wittgenstein. *Tractatus Logico—Philosophicus*, \$3.35. Trans. Pears and McGuinness—N.Y.: Humanities Press 1961. *A. Wittgenstein Bibliography*. Compiled by K. T. Fann, \$0.50. *International Philosophical Quarterly* 7 (1967) 331-339. Lectures: 2 hours per week for two terms.

306 Philosophy of Man.

D. O'Connor

The readings in this course will be taken from Descartes, Berkeley, Hume, Bergson, Nietzsche, Ricoeur and Strawson. In this course we will attempt a critical understanding of these major modern and contemporary philosophers and their positions. Included too will be lectures concerning contemporary psychological research and how this challenges and aids the philosophical task. The major emphasis in the course will be to develop a critical understanding of man and the problems he faces in becoming aware of himself.

Lectures: 2 hours per week for two terms.

307 Introduction to Existential Phenomenology.

G. Beretta

A survey including aspects of the philosophy of Kierkegaard, Husserl, Heidegger, Marcel, Jaspers, Sartre, Merleau-Ponty.

Lectures: 2 hours per week for two terms.

308 Philosophy of Living Things.

B. Cavanaugh

This course will treat problems which are proper to living organisms: the problem of life, the broad implications of evolution, genetics, demographic patterns, somometry, growth and constitution and coology, climatology, etc. The supportative data will be drawn from zoology, biology, proximics, etiology and related fields; the conclusions tentatively proposed will be critical; the methodology will be primarily problem-directed, secondarily systematic. The focus will tend to be on man, as a biological organism but only as the present term of biological development.

Lectures: 2 hours per week for two terms.

309 Philosophy of Education.

H. H. Lau

Examination of philosophical positions underlying educational theory. A study of the problems which arise when a theory of education is put into practice. Consideration of trends in Philosophy of Education today.

Texts: Shermis, S. S., *Philosophic Foundations of Education*, American Book Company.

Lectures: Two hours per week for two terms.

312 Philosophy of Knowledge.

P. O'Neill

One problem that cuts as deeply as any into the nature of knowledge is that raised by Descartes, sometimes called the problem of transcendence: How does a subject get beyond itself to an object? Or alternatively, How can we be sure our knowledge pertains to reality? The various possible answers to this question can be grouped under three or four categories, and implicit in them are some fundamental alternatives on the nature of truth and an understanding of substance.

Initially we would hope to examine various historical solutions to this question and how they tend toward either a correspondence or consistency theory of truth. Furthermore, it would appear that a philosopher of today has to decide for himself whether or not the original question was structured properly.

Texts: 1) R. Descartes: Meditations Library of Liberal Arts (paperback).

2) G. E. Moore: Some Main Problems of Philosophy.

3) H. Bergson: An Introduction to Metaphysics.

Lectures: 2 hours per week for two terms.

313 Philosophy of the Social Sciences.

P. Restuccia

314 Ethics.

J. P. Doyle

A consideration of principles underlying moral evaluation, with reference to classical and other positions.

Lectures: 2 hours per week for two terms.

315 Philosophy of God.

J. C. McGraw

The problem of the natural knowledge of God including readings from Plato, Aristotle, Anselm, Aquinas, Descartes, Hume, Pascal, Kant, Hegel, Feuerbach, Marx, Kierkegaard, Newman, Nietzsche, Sartre, Ayer and Russell.

Lectures: 2 hours per week for two terms.

317 Ethics.

D. Park

An analysis of some major questions discussed in the writings of Plato, Aristotle, Epictetus, Hobbes, Bentham, Butler, Mill and Kant.

Lectures: 2 hours per week for two terms.

318 Ethics and Society.

R. Hinners

Classical types and perennial problems of social and political philosophy with particular attention to their moral bases and consequences; a general consideration of classical concepts of legal and moral rules, rights and obligations, authority, the state, freedom and justice as exemplified in the writings of Plato, Aristotle, Aquinas, Hobbes, Locke and Mill; a more detailed consideration of the notions of history, ideology, social violence, technology and work as practiced in contemporary societies and as conceived in the writings of Marxist and non-Marxist social theoreticians.

Lectures: 2 hours per week for two terms.

319 Metaphysics.

F. Joos

Discussion of the question 'What is being?' (Parmenides, Plato, Aristotle)—The theory of Forms and Aristotle's criticism. Substance—four causes—potentiality and actuality (Aristotle)—Causality of Esse (S. Th. Aquinas).

Lectures: 2 hours per week for two terms.

Texts: Cornford, *Plato's Theory of Knowledge* (The Theatetus and Sophist of Plato); Aristotle, Metaphysics; S. Th. Aquinas, *De Ente et Essentia* (On Being and Essence).

321 Philosophy of Man.

B. Cavanaugh

This course will aim at at least a rudimentary exploration of man from his major existential dimensions, e.g., man as thinker, man as living, man as historical, man as aesthetic, man as religious, etc. The method will be systems analysis from the viewpoint of space and time or an investigation of man as one who consciously develops along many different levels of consideration, from childhood to old age, in the psychic and physical world.

Lectures: 2 hours per week for two terms.

322 Philosophy of Knowledge.

H. H. Lau

A study of texts of Plato, Aristotle, Descartes, Berkeley, Hume, Kant and Peirce. Text: Ackermann, *Theories of Knowledge*, McGraw-Hill Book Co.

Lectures: 2 hours per week for two terms.

23 Political and Social Philosophy.

V. McNamara

The course treats of the individual in relation to the State and Society through the reading and discussion of selected texts. Problems treated: political authority, its sources and varieties; the limits of political authority; classical images of man; personality and society; the paradox of social control.

Lectures: 2 hours per week for two terms.

Text: Political Man and Social Man, Ed. Robert Wolff.

324 Ethics.

J. D. Morgan

Questions in Moral Evaluation of Human Conduct. A consideration of the history of Ethics, with special emphasis on Aristotle. The application of moral positions to contemporary problems, especially the problems of civil disobedience, capital punishment and sexual experience.

Lectures: 2 hours per week for two terms.

325 Philosophy of Religion.

G. Beretta

A detailed study of excerpts from philosophers representing the major attempts to give a proof of the existence of God (Plato, Anselm, Aquinas, Descartes, Kant, and some contemporary authors). A discussion of influential forms of Atheism.

Lectures: 2 hours per week for two terms.

Text: J. Hick: The Existence of God.

Readings: J. A. Robinson: Honest to God; E. Fromm: Psychoanalysis and Religion.

327 General Dialectics.

M. F. Reidy

Studies in the practical structure of decisive argument and the theories upon which it is based.

Readings: Plato, Aristotle, Abelard, Thomas Aquinas, Ramus, Hegel and others. Lectures: 2 hours per week for two terms.

331 Philosophy of Man.

C. Grav

The place philosophy holds for man studied via the traditional problem outline (Human life, faculties and direction) supplemented by scientific studies and original philosophers.

Lectures: 2 hours per week for two terms.

Text: Donceal, Philosophical Anthropology.

332 Ethics.

D. O'Connor

In this course we will attempt a critical survey of some major philosophical attempts since Descartes to ground and construct an ethical system. This will involve readings in Spinoza, Descartes, Kant, Mill, Camus and Bradley. The latter part of this course will be devoted to a criticism of any attempt to found an ethical system and an analysis of such ethical problems as aggression, violence, political and economic systems, and birth control. This latter section will involve readings from Nietzsche, Kurtz, J. D. Frank et. al.

Lectures: 2 hours per week for two terms.

333 Social Philosophy.

P. Restuccia

334 Ethics.

P. O'Neill

It would appear that students interested in ethical questions should at least be acquainted with the different procedures now being used in ethical discussions. We have tried to present these different approaches in as natural a context as possible. Secondly, we are operating on the assumption that definite advantages are gained by separating ethical questions from religious questions.

Texts: 1) E. Fromm: Man for Himself.

- 2) H. Veatch: Rational Man.
- 3) S. Kierkegaard: Fear and Trembling.

4) J. Fletcher: Situational Ethics.

 (A possibility to be decided upon shortly) Wm. Frankena: An Introduction to Ethics.

Lectures: 2 hours per week for two terms.

410 Philosophy of History.

R. C. Hinners

The problem of historical knowledge and explanation and its relation to ideological, metaphysical and religious ideas of historical development and of the meaning of history. Study of selected texts of St. Augustine, Hegel, Marx, Heidegger, Collingwood and others.

Lectures: 2 hours per week for two terms.

411 A History of Ancient Western Philosophy.

M. F. Reidy

A study of the major figures in Greek and Roman philosophy from Thales to Plotinus.

Lectures: 2 hours per week for two terms.

412 Mediaeval Philosophy.

E. Joos

The aim of the course is to link mediaeval philosophy with ancient and comtemporary problems. The historical and philosophical background: Plato and the Academy; Late Antiquity; the Greek and Christian Logos; Patristic Period; Plotinus and St. Augustine; St. Augustine's Confessions and Modern Existentialism; Boethius and Abelard—the problem of Universals; Aristotle's entry into the Middle Ages; St. Th. Aquinas; the continuity of the Augustinian tradition—The Mind's Road to God (St. Bonaventure).

Texts: St. Augustine, The Confessions; Boethius, The Consolation of Philosophy; St. Bonaventure, The Mind's Road to God; Selections from Mediaeval Philosophers, Ed. R. McKeon.

Lectures: 2 hours per week for two terms.

413 Modern Philosophy. (Topics for 1968-69; Hume and Kant). D. Park

A systematic study of some major concepts in the writings of Hume and Kant. Required reading will include the *Treatise*, *Enquiry* and *Critique of Pure Reason*. Lectures: 2 hours per week for two terms.

414 Contemporary Philosophical Movements.

A. S. Kawczak

416 Aesthetics.

PHILOSOPHY

E. Egan

The notion of creative art as knowledge, as involved in the creation and appreciation of the artifact; taste and value judgment in relation to the ethical, religious and psychological dimensions of art; the relationship of creativity and taste to the social and cultural environments, with critical attention to any dualistic bias which would relegate artistic meaning to "mere aesthetics".

Lectures: 2 hours per week for two terms.

Readings include: Ernst Fischer, H. Marshall McLuhan, Arnold Hauser, Maritain, Dewey, van der Leeuw, Vivas, Auerbach and Ben Shahn.

417 Political Philosophy.

V. J. McNamara

Treats of the theoretical foundations of Communism, Fascism and Democracy through the reading and discussion of selected texts.

Lectures: 2 hours per week for two terms.

Text: Communism, Fascism and Democracy, Ed. Carl Cohen.

422 Logic and Scientific Method.

A. S. Kawczak

423 Marxism and Existentialism.

B. Flynn

A study of the early writings of Marx and Capital supplemented by works of Sartre and Merleau-Ponty.

Lectures: 2 hours per week for two terms.

424 Moral Philosophy.

E. Egan

The meaning of situation ethics over against the problem of the moral absolute; the religious and metaphysical implications of ethical options; the relation of joy to moral wholeness and maturation. A criteriology for morals will be sought through an open discussion of concrete problems, with special attention to sex, violence and money.

Lectures: 2 hours per week for two terms.

Readings include: Walter Dirlss, Gabriel Marcel, Jacques Leclerq, Henri Duméry and Paul Ricoeur.

425 Philosophy of Love.

J. G. McGraw

Philosophical analysis of love with an emphasis on its relationships to ontology, epistemology, psychology and ethics. The readings will include Heraclitus, Empedocles, Plato, Aristotle, Aquinas, Hume, Kant, Schopenhauer, Kierkegaard, Nietzsche, Scheler, Ortega y Gasset, Unamuno, Teilhard de Chardin, Sartre, Ayn Rand, Fromm and Sorokin.

Lectures: 2 hours per week for two terms.

426 Death as a Philosophical Problem.

J. D. Morgan

A consideration of the mortality of man and the implication that this mortality has for a total philosophy of man.

Lectures: 2 hours per week for two terms.



Theology or

Associate Professor and

Chairman

C. E. Eappen

Professors
Assistant Professors

S. N. Bagchi, Rev. H. J. Macphee, S.J. C. S. Kalman, T. A. Kovats, W. E. Pinson,

J. Shin

Associate Professor

R. L. Kovacs

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Courses	leading	to an	Honours	B.Sc.	in Physics	

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Mathematics 231 Mathematics 234 Philosophy Physics 205 Physics 220 Physics 301	Philosophy Physics 306 Physics 310 Physics 307 Physics 320 Physics 320 or 411	English Physics 403 Physics 404 Physics 408 Physics 411 or 304
	Physics 309	Physics 305 or 410 Theology	Physics 410 or 305 Theology or Philosophy
Courses leading to a l	B.Sc. with a Major in Phy	rsics	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Mathematics 231 Mathematics 234 Philosophy Physics 205	Philosophy Physics 302 Physics 304 Physics 307	English Physics 403 Physics 310 Physics 306

Physics 320

Note: Students contemplating Honours or Major Programme should take Mathematics 121 in the first year.

Physics 220

Physics 301

Physics 309

Courses leading to a General B.Sc. in Physics				
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR	
Discontinued—See Collegial Program	Mathematics 232 Philosophy Physics 201 Physics 205 One Elective from Biology Chemistry 231 Geot. Sc.	Philosophy Physics 307 Physics 311 *Science Elective I Theology	English Philosophy or Theology Physics 302 Physics 304 *Science Elective II	

^{*}Subjects to be decided by the Department.

101 General College Physics. Full Course.

An introductory course on the elements of mechanics, sound, heat electricity and light.

Lectures: 3 hours per week for two terms.

Lab.: 1 period per week for two terms.

Text: To be announced.

103 Heat and Sound, Half Course.

Gas laws, kinetic theory, thermodynamics, expansion, changes of state, heat transfer. Vibration, waves and acoustics.

Lectures: 2 hours per week, first term.

Lab.: 2 hours per week, first term.

Text: Sears and Zemansky: University Physics, Part One (Addison Wesley).

201 Heat, Light and Sound. Full Course.

Travelling and standing waves, acoustical interference and diffraction, Doppler effect; laws of reflection and refraction, mirrors, lenses, optical interference and diffraction, polarization; pressure, temperature, latent and specific heats, conduction, convection, radiation, PVT surfaces, first and second laws of thermodynamics, Carnot cycles.

Lectures: 3 hours per week for two terms.

Text: Sears and Zemansky: University Physics (Addison Wesley).

205 Electricity and Magnetism. Full Course.

Electrostatic field, capacitance, dielectrics, direct current circuits, thermoelectricity, magnetic fields, electromagnetic induction, alternating current circuits, Maxwell's equations.

Lectures: 3 hours per week for two terms.

Lab.: 1 period per week for two terms.

Text: Kip: Fundamentals of Electricity and Magnetism (McGraw-Hill).

206 Electricity and Light. Full Course.

Electrostatic field, capacitance, dielectrics, Gauss's theorem, direct current circuits, resistance measurements, magnetic field, electromagnetic induction, Maxwell's equations and electromagnetic waves. Waves and rays, lenses, the eye, illumination and optical instruments.

Lectures: 2 hours per week for two terms.

Lab.: 2 hours per week for two terms.

Text: To be announced.

Note: About one quarter of the course will be spent on Light.

220 Methods of Mathematical Physics I. Full Course.

Finite dimensional vector spaces, vector functions, definitions of gradient, divergence, and rotation, matrices and determinants, linear co-ordinate transformation, systems of simultaneous linear equations, general co-ordinate transformation, covariant and contravariant components of a vector, tensors, characteristic value problems.

Lectures: 3 hours per week for two terms.

References: Hadley: Linear Algebra; Vector Analysis (Schaum's Series).

301 Optics. Half Course.

Principles of geometrical and physical optics, interference, diffraction, polarization, double refraction.

Lectures: 3 hours per week, first term.

Text: Morgan: Introduction to Geometrical and Physical Optics (McGraw-Hill).

PHYSICS

PHYSICS 159

302 Modern Physics. Full Course.

Part One: Special relativity, quantum effects, particle aspects of electromagnetic radiation, wave aspects of material particles, nuclear atom and Bohr theory, elementary quantum mechanics of atoms.

Part Two: X-ray spectra, radioactivity, nuclear structure, accelerators and detectors, nuclear reactions.

Lectures: 3 hours per week for two terms.

Text: Weidner and Sells: Elementary Modern Physics (Allyn and Bacon).

303 Modern Physics. Half Course.

This is Part One of Physics 302, taken during first term.

304 Thermodynamics. Half Course.

An introductory course in thermodynamics and kinetic theory. It includes the first and second laws of thermodynamics with ample applications and introduces the Helmholtz and Gibbs functions.

Lectures: 3 hours per week, first term.

Text: Sears: Introduction to Thermodynamics, Kinetic theory and Statistical Mechanics (Addison Wesley).

305 Statistical Mechanics. Half Course.

Lectures: 3 hours per week, second term.

Text: To be announced.

306 Modern Physics and Introduction to Quantum Mechanics. Full Course.

Black body radiation and Planck's hypothesis of quanta, Photon theory (photoelectric effect, Compton effect, Brehmstrahlung), Rutherford scattering and nuclear model of the atom, Bohr theory and old quantum mechanics (correspondence principle, phase integrals), Schrodinger equation, barrier, well potentials, harmonic oscillator, one-electron atoms, magnetic moments, spin, identical particles, multielectron atoms, molecules.

Lectures: 3 hours per week for two terms.

Lab.: One period per week for two terms.

Text: Eisberg: Fundamentals of Modern Physics (John Wiley).

307 Electronic Circuits, Full Course.

AC and DC network theory, introduction to semi conductor theory, analysis of half-wave and full wave power supplies and filter networks, voltage clamper, doubler and n-tupler, transistor principles, amplifiers and their equivalent circuits, using h-parameters, vacuum triodes and pentodes, analysis of power amplifiers, oscillators, high frequency and pulse circuits.

Note: Emphasis will be made on solid state devices.

Lectures: 3 hours per week, first term, 2 hours per week, second term.

Lab.: One period per week for two terms.

Text: Millman and Halkias: Electronic Devices and Circuits (McGraw-Hill).

309 Theoretical Mechanics I. Half Course.

Reference systems, basic concepts, systems in equilibrium, one-dimensional motion of a particle, kinematics of a system of particles, plane motion of a particle, motion of a system of particles.

Lectures: 3 hours per week, second term.

Text: Prepared notes.

310 Theoretical Mechanics II. Half Course.

Plane motion of a rigid body, motion with respect to non-inertial frames, motion of a particle in space, motion of a rigid body about a fixed point, introduction to Lagrange's and Hamilton's equations of motion, introduction to the theory of small oscillations.

Lectures: 3 hours per week, first term.

Text: Prepared notes.

311 Theoretical Mechanics. Full Course.

A course treating most of the topics of Physics 309, 310 and 410, but with simpler applications.

Lectures: 3 hours per week for two terms.

Text: Prepared notes.

320 Methods of Mathematical Physics II. Full Course.

General concepts of function, continuity, differentiation, integration, convergence, uniform convergence, etc., partial differential equations of physics; function spaces and orthogonal sets of functions; Fourier series and definition of Fourier integral; boundary value problems, Sturm-Liouville problems; special functions (Bessel, Legendre, etc.); topics in complex functions and applications.

Lectures: 3 hours per week for two terms.

References: Sagan: Boundary and Eigenvalue Problems of Mathematical Physics (Wiley); Weinstock: Calculus of Variations (McGraw-Hill); Tolstov: Fourier Series (Prentice Hall); Churchill: Fourier Series and Boundary Value Problems (McGraw-Hill); Churchill: Complex Variables and Application (McGraw-Hill)

403 Electromagnetic Theory. Full Course.

Derivation of the laws of electrostatics and magnetostatics from the basic experimental laws, method of images, delta functions, Maxwell's equations, wave solutions in various media, wave guides, solutions of Laplace's equation, Helmholtz equation, and wave equation by Green's functions; multiple fields, interaction of charged particles, radiation of moving charges, Abraham-Lorentz theory.

Lectures: 3 hours per week for two terms.

Text: Jackson: Classical Electrodynamics (John Wiley).

References: Becker and Sauter: Electromagnetic fields and interactions (Blaisdell). Pannofsky and Phillips: Electricity and Magnetism (Addison Wesley).

404 Solid State and Nuclear Physics. Full Course.

Lectures: 3 hours per week for two terms. Lab.: One period per week for two terms.

Text: To be announced.

408 Quantum Mechanics. Full Course.

Operator formalism, measurement, correspondence principle, angular momentum, matrix representations, spin angular momentum, approximate methods, Dirac electron, quantisation of electromagnetic fields, scattering.

Lectures: 3 hours per week for two terms.

Text: To be announced.

410 Advanced Theoretical Mechanics. Half Course.

(Not offered in 1969-70)

Variational principles in mechanics, Lagrange's equations of motion, central orbits and Rutherford Scattering, kinematics of rigid body motion, rigid body equations of motion, small oscillations of discrete particles and of continuous media, Hamilton's equations of motion, canonical transformations, Hamilton-Jacobi theory.

Lectures: 3 hours per week, second term.

Text: Goldstein: Classical Mechanics (Addison Wesley).

411 Special Relativity. Half Course.

(Not offered in 1969-70)

Classical relativity, first and second postulates, Lorentz transformation, time dilation, length contraction, velocity and acceleration, world vectors, momentum and energy, center of momentum frames, collision problems, dynamics of a particle, covariant Lagrangian and Hamiltonian equations of motion, geometry of space-

Lectures: 3 hours per week, first term.

Text: Smith: Introduction to Relativity (W. A. Benjamin).

References: Synge: Relativity, the Special Theory (North-Holland). Hagerdon:

Relativistic Kinematics (W. A. Benjamin).

POLITICAL SCIENCE



Associate Professor (Chairman)

Associate Professor Assistant Professors

R. Coyte, L. Laszlo, J. Moore, D. Porter

Sessional Lecturer D. Vince

Courses leading to a B.A. with a Major in Political Science				
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR	
Discontinued—See Collegial Program	Classics 112 or 202 or 212 or 221 English French Philosophy 200 POLITICAL SCIENCE 500 Theology	Philosophy POLITICAL SCIENCE (Three Electives) One Elective*	POLITICAL SCIENCE (Three Electives) Theology** One Elective*	

H. Habib

K. Oh

A Major in Political Science consists of a minimum of six full courses in the subject. A student majoring in Political Science must include Political Science 500 in his programme. A student may substitute any course from the Social Sciences or the Humanities for a Political Science elective with the approval of the Political Science Department.

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Economics 100°°° Philosophy POLITICAL SCIENCE 500 POLITICAL SCIENCE 595H Theology One Elective°	Philosophy POLITICAL SCIENCE (Three Electives) One Elective®	POLITICAL SCIENCE 795H POLITICAL SCIENCE (Three Electives) Theology**

^{*}Elective: any course in the Humanities or Social Sciences other than Political Science.

An Honours in Political Science consists of a minimum of six full courses in the subject and an Honours Senior Seminar. A student honouring in Political Science must include Political Science 500 and 595H in his Sophomore Year, 795H in his Senior Year. A student may substitute any course from the Social Sciences or the Humanities for a Political Science elective with the approval of the Political Science Department. All Honours students must pass a comprehensive oral examination in their Senior Year.

Honours courses are designated by an H. They are open to Political Science Majors and to Majors and Honours students from other departments with the permission of the Department of Political Science.

^{**}If the Theology requirement is fulfilled in the First Year, then a student will be able to take a Political Science elective in his Fourth Year.

^{***}If Economics 100 has been taken in First Year then an elective from Economics or Sociology may be

POLITICAL SCIENCE

Joint Major in Politica	Science & Economics		
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	1 Economics 210 Pol. Science 500 Classics French 2 Economics 221 or Elective Philosophy	Economics Pol. Science Pol. Science Pol. Science 3 Theology English	Economics Pol. Science Pol. Science Theology Philosophy

A student may register with either the Political Science or Economics Department for this programme.

- (1) Economics 100 will be substituted by students who have not taken this course in the first year.
- (2) Students who have taken Math. 101 in the first year may take Economics 221. Students who have not taken Math. 101 will take Elective.
- (3) Students who have fulfilled this Theology requirement in second year will take Economics 210. The Department suggests that courses listed in the 600 range should be taken before courses listed in the 700 range, but it is not mandatory that these guidelines be followed.

500 An Introduction to Political Science, Full Course,

H. Habib

A basic course in the fundamentals and significance of Political Science.

Lectures: 3 hours per week for two terms.

Text: Merkl, Political Continuity and Change, Harper and Row.

595H Political Philosophy. Full Course.

J. Moore

From ancient Greece to the Renaissance.

Prerequisite: Political Science 500, or approval of the Department of Political Science.

Lectures: 3 hours per week for two terms.

Text: Readings from the major political philosophers of the period. Major students wishing to pursue graduate studies in Political Science are urged to take this course.

610 International Politics. Full Course.

K. Ot

A theoretical analysis of inter-state relations, drawing upon the development in the Foreign Policy and Diplomacy of the major powers.

Prerequisite: Political Science 500, or approval of the Department of Political Science.

Lectures: 3 hours per week for two terms.

Text: Crabb, Nations in Multipolar World, Harper and Row.

620 Canadian Government. Full Course.

D. Vince

An institutional and functional analysis of the political process in Canada.

Lectures: 3 hours per week for two terms.

Text: Dawson, Government of Canada, Toronto University Press.

630 American Government, Full Course,

R. Coyte

A study of the American Political Institutions.

Lectures: 3 hours per week for two terms.

Text: Burns and Peltason, Government of the People, Prentice Hall.

640 The Soviet Union, Full Course.

R. Covte

Government and Politics of the Soviet Union. Basic theories of Communism; evolution of the Soviet System.

Lectures: 3 hours per week for two terms.

Text: McClosky and Turner, The Soviet Dictatorship, McGraw-Hill.

650 British Government and Politics. Full Course.

R. Coyte

Government and Politics in Britain with particular emphasis on Political Parties, changing role of the legislature and executive, and the Public Corporations; the role of the Commonwealth today.

Lectures: 3 hours per week for two terms.

Texts: Morrison of Lambeth: Government and Parliament, Oxford University

Press

Stankiewicz: Crisis in British Government, Oxford University Press.

660 Comparative Government. Full Course.

H. Habib

A survey of contemporary political systems, forces and problems in Western Europe with special emphasis on France, Germany and the United Kingdom.

Lectures: 3 hours per week for two terms.

Text: Carter-Hertz, Major Foreign Powers, Harcourt, Brace and World.

670H Government and Economic Policy. Full Course.

R. Coyte

The role of Government in the economic life of different nations; the relation of economic and political power; the changing balance of public and private power in political systems.

Lectures: 3 hours per week for two terms.

680H Behavioral Theory and Approaches of Political Science. Full Course.

A systematic study of modern theories of political behavior with emphasis on behavioral methodology and survey techniques. It includes an introduction to behavioral approaches, analysis of system theories and attempts at survey research. Prerequisite: Political Science 500, or approval of department.

Lectures: 3 hours per week for two terms.

690 Political Theory. Full Course.

A general survey from Plato to the present.

Lectures: 3 hours per week for two terms.

Text: Sabine, A History of Political Theory, Holt, Rinehart and Winston.

695H Modern Political Philosophy, Full Course.

J. Moore

From the Reformation to the 20th Century.

Prerequisite: Political Science 500, or approval of the Department of Political Science.

Lectures: 3 hours per week for two terms.

Text: Readings from the major political philosophers of the period. Honours students wishing to pursue graduate studies in Political Science are urged to take this course.

710 International Law. Full Course.

H. Habib

An Introduction to International Law.

Lectures: 3 hours per week for two terms.

Text: Brierly, The Law of Nations, Oxford. Whitaker, Politics and Power, Harper and Row.

712 International Organization. Full Course.

L. Laszlo

A survey and analysis of attempts to institutionalize order and change in the international society. Chief emphasis will be upon the United Nations.

Prerequisite: Political Science 500, or equivalent.

Lectures: 3 hours per week for two terms.

Text: Claude, Swords Into Plowshares, Random House.

720 Politics of French Canada, Full Course.

M. Danis

A political study of French Canadian institutions, and a survey of French Canadian political thinking.

Lectures: 3 hours per week for two terms.

723 Seminar on Canadian Foreign Policy. Full Course.

D. Vince

An analysis of the development and the present problems of Canadian foreign and defense policies.

725 An Introduction to Law and the Canadian Constitution. Full Course.

R. Alain

An introduction to law in general and the Civil Code, in particular, with references to the Criminal Code, Companies Act, and others. This course will also deal with the Canadian Constitutional System and its major interpretations by the Courts. Prerequisite: Political Science 500, or 620, or approval of the department of Political Science.

Lectures: 3 hours per week for two terms.

728 Public Administration. Full Course.

D. Vince

A theoretical study of government management and institutions, based on the Canadian administrative experience and related to Anglo-American comparative practice.

Lectures: 3 hours per week for two terms.

Texts: Hodgetts and Corbett, Canadian Public Administration. MacMillan; White, Introduction to the Study of Public Administration, MacMillan.

729 Seminar on Local Government in Canada. Full Course. E. R. M. Griffiths Governments of Cities, Towns and Counties; Relations with Provincial Governments and other agencies.

730 Latin American Government. Full Course.

J. Moore

An analysis of the historical background and of contemporary political processes. Lectures: 3 hours per week for two terms.

Text: Needler, Political Systems of Latin America.

735 The Politics of Race, Full Course,

D. Porter

A comparative study of the racial factor in contemporary politics. Several political systems will be examined, with special emphasis on white-dominated Southern Africa, colonial Algeria, and the United States.

Texts: van den Berghe, South Africa: A Study in Conflict, U. of Cal. Press; Fanen, The Wretched of the Earth, Grove Press; The Autobiography of Malcolm X, Grove Press.

Lectures: 3 hours per week for two terms.

740 Contemporary Politics of the Far East. Full Course.

K. Oh

An analysis of the political developments of China and Japan since the 19th Century with special emphasis on the traditional institutions and social structures; their transformation brought about by the impact of the West; the government and politics of China and Japan and the rise of Communism.

Lectures: 3 hours per week for two terms.

742 Seminar on Communism in East Asia. Full Course.

K. Oh

An intensive analysis of communism as it relates to the development of political ideas, institutions, and domestic and foreign policies of East Asian countries. Some of the topics to be examined are: (1) ideological factors, (2) socio-political basis, (3) institutional organizations, (4) political leaderships, (5) tactics and strategies, and (6) communist movement of non-communist party-states.

745 Eastern European Governments. Full Course.

L. Laszlo

A study of the constitutional political, and administrative systems of the East European states (East Germany, Poland, Czechoslovakia, Hungary, Roumania, Yugoslavia, Bulgaria, Albania).

Text: Skilling, The Governments of Communist East-Europe, Thomas Crowell. Lectures: 3 hours per week for two terms.

750 African Government and Politics. Full Course.

D. Porter

Colonialism, imperialism and the rise of nationalism; government and politics of the independent African states.

Lectures: 3 hours per week for two terms.

755 The Middle East. Full Course.

H. Habib

Government and Politics of the Middle East. An historical and political Survey. Lectures: 3 hours per week for two terms.

Texts: Kirk, A Short History of the Middle East, Methuen; Harari, Government and Politics of the Middle East, Prentice Hall; Carmichael, The Shaping of the Arabs, Collier-MacMillan.

760 The New Europe. Full Course.

L. Laszlo

Politics and Economics of European Integration; this will include material on the Council of Europe, European Common Market, the European Free Trade Association and the (COMECON) Council for Mutual Economic Assistance.

Texts: Curtis, Western European Integration, Harper & Row (paperback); Kitzinger, The Politics & Economics of European Integration, Praeger; Lichtheim, The New Europe, Praeger.

Lectures: 3 hours per week for two terms.

757H The Stages of Political Development. Full Course.

D. Porter

An analysis of factors causing political systems to change. Examination of the traits of each of four stages, from national unification to the politics of abundance, with reference to a variety of specific countries throughout the world.

Text: Organski, The Stages of Political Development, Knopf.

Lectures: 3 hours per week for two terms.

780H Seminar on Methodological Analysis of North American Politics.
Full Course.

795H Seminar: - Perspectives on Politics. Full Course.

PSYCHOLOGY



Associate Professor (Chairman) Associate Professor

V. Maheux J. J. Lavery

Assistant Professors J. H. Bauer, H. W. Ladd, Elizabeth C.

Mouledoux

PREAMBLE

The Department of Psychology offers a Major programme leading to both a B.A. and a B.Sc. The curriculum is designed to provide a general cultural training and to give adequate preparation for graduate studies in Psychology.

A Major in Psychology consists of a minimum of six courses in the subject. B.A. students majoring in Psychology must include Statistics & Behavioral Analysis in their programme; B.Sc. students must include Statistics & Behavioral Analysis and Physiological Psychology.

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Statistics 202 Classics 112 or 202 or 212 or 221 French Philosophy PSYCHOLOGY 201 Theology	PSYCHOLOGY 305 Theology Three Electives**	English Philosophy Three Electives**
Courses leading to a I	3.Sc. with a Major in Psyc	hology	
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Statistics 202 Chemistry 221-222 English Philosophy PSYCHOLOGY 201 Theology	Biology 331 Philosophy PSYCHOLOGY 305 Two Electives**	Philosophy or Theology PSYCHOLOGY 401 Three Electives**

^{**}Students may choose their electives from Biology, Chemistry, Communication Arts, English, French Studies, Modern Languages, Psychology, Sociology, etc. B.A. students may choose Physiological Psychology as an elective with the permission of the Chairman of the Psychology Department. In choosing their electives, students should consult as to prerequisites with the Departments concerned.

201 Introduction to Psychology. Full Course.

J. J. Lavery

Presents a biological approach to the study of mind and behavior. Research in the areas of learning, sensation and perception, intelligence, motivation, emotion will be discussed.

Prerequisite to all other courses in Psychology.

Lectures: 3 hours per week for two terms.

Text: D. O. Hebb, A Textbook of Psychology, Saunders, 1966.

202 Statistics, Full Course,

The course in Introductory Statistics is designed to introduce a limited number of basic concepts and techniques to the student in Psychology.

These basic concepts and techniques will enable the student to gain both a deeper understanding of many areas of modern psychology, and to design and complete experimental studies.

Required for all 2nd year Majors in Psychology.

Lectures: 3 hours per week for two terms.

Laboratory: 2 hours per week for two terms.

Text: To be announced.

301 Developmental Psychology. Full Course.

Elizabeth C. Mouledoux

A study of physical, cognitive, emotional and social development from conception to old age, with emphasis on childhood and adolescence and on normal development, with some study of age-related deviant patterns. A research paper based on systematic observation of and/or experimental procedures with children or adolescence will be required.

Lectures: 3 hours per week for two terms.

Text: To be announced.

302 Social Psychology. Full Course.

The study of man in his social relations. The course concentrates on motives, perceptions, prejudice, values, group processes, leadership, etc.

Lectures: 3 hours per week for two terms.

Text: To be announced.

303 Personality: Normal and Abnormal. Full Course.

V. Maheux

Survey of Personality structure and theories. Emphasis will be placed on the study of normal personality. Symptoms and dynamics of neuroses, psychoses, and other behavior disorders will be included for the purpose of clarifying normal personality processes.

Lectures: 3 hours per week for two terms.

Text: To be announced.

304 Motivation, Full Course,

J. J. Lavery

A study of determinants (neural, hormonal, experiential) of activity. The variability of behavior (e.g. eating behavior, sexual behavior, exploration, play), is discussed in terms of homeostasis, pleasure, arousal, disparity, etc.

Lectures: 3 hours a week for two terms.

Text: To be announced.

305 Statistics and Behavioral Analysis. Full Course. J. H. Bauer, H. W. Ladd

The first half of this course is designed to introduce a limited number of basic statistical concepts and techniques to students in Psychology. The second half of the course is concerned with experimental methodology; i.e., design and analysis of experiments. Students are required to design, conduct, analyze and report on a number of experiments.

Required course for all majors in Psychology.

Lectures: 3 hours per week for two terms.

Laboratory: 3 hours per week for two terms.

Text: To be announced.

306 Learning, Full Course.

H. W. Ladd

The course is a detailed examination of behavior in terms of the principles of conditioning and learning. The course material is approached strictly from an experimental, empirical point-of-view.

Lectures: 3 hours per week for two terms.

Laboratory: To be scheduled during regular classes.

Texts: Kimble, G., Hilgard and Marquis' Conditioning and Learning (rev. ed), Appleton-Century-Crofts, 1961. Mednick, S., Learning, Prentice-Hall, Foundation of Modern Psychology Series, 1964, paperback.

307 Animal Behavior, Full Course.

J. H. Bauer

The study of animal behavior, its description, function and causes, from a comparative bio-psychological point of view.

Lectures: 3 hours per week for two terms.

Laboratory: To be scheduled during regular classes.

Text: To be announced.

308 Perception. Full Course.

The course is directed towards an understanding of the regularities and the integrative processes of the central nervous system during sensory experience. Visual perception and auditory perception will be considered in more detail than cutaneous and chemical perception.

Lectures: 3 hours per week for two terms.

Laboratory: To be scheduled during regular classes.

Text: To be announced.

309 Theory in Research and Applied Psychology. Full Course.

An introduction to the principles, methods and problems in some applied areas of Psychology.

Lectures: 3 hours per week for two terms.

Laboratory: To be scheduled during regular classes.

Text: To be announced.

401 Physiological Psychology. Full Course.

V. Maheux

A study of the physiological basis of behavior: sensory systems, response mechanisms, nervous system.

Lectures: 3 hours per week for two terms.

Laboratory: To be scheduled during regular classes.

Text: To be announced.

402 Advanced Experimental Psychology. Full Course.

A seminar series dealing with selected problems in the fields of emotion, learning, motivation, perception, etc.

Seminars: 3 hours per week for two terms.

Laboratory: To be scheduled.

Text: To be announced.

403 History of Psychology. Full Course.

Elizabeth C. Mouledoux

A survey of the historical antecedents of modern experimental and applied psychology, with application of the historical perspective to understanding some current theories, issues and trends within the discipline.

Lectures: 3 hours per week for two terms.

Text: To be announced.

SOCIOLOGY



Associate Professors Assistant Professors Lecturer

J. Tascone (Chairman), G. Dewey R. Henry, T. McPhail, J. Norris L. Snider

Course List for 1969/70

Full Courses

2. 3. 4. 5. 6.	Sociology 100-01 Sociology 100-02 Sociology 100-03 Sociology 100-04 Sociology 100-05 Sociology 100-06 Sociology 100-07	Introductory Sociology Introductory Sociology Introductory Sociology Introductory Sociology Introductory Sociology Introductory Sociology Introductory Sociology	To be appointed
	Sociology 200-01 Sociology 200-02	Social Psychology Social Psychology	Dr. J. Norris To be appointed
	Sociology 300-01 Sociology 300-02	Social Research Methodology Social Research Methodology	To be appointed To be appointed
	Sociology 350-01 Sociology 350-02	Statistical Reasoning in Sociology Statistical Reasoning in Sociology	Dr. J. Norris Dr. J. Norris
14.	Sociology 400-01	Sociological Theory	Dr. G. Dewey
15.	Sociology 450	Honours Essay Sociology (Honours)	Staff
	Sociology 500-01 Sociology 500-02	Social and Cultural Anthropology Social and Cultural Anthropology	To be appointed To be appointed
18	Sociology 600	Introduction to Social Work	To be appointed

Half Courses FIRST TERM

1.	Sociology	201-01	Systematic Sociology	Dr. G. Dewey
	Sociology Sociology		Canadian Society Canadian Society	Prof. L. Snider Prof. L. Snider
4.	Sociology	205-01	Criminology and Delinquency	Prof. R. Henry
5. 6.	Sociology Sociology	301-01 301-02	Race Relations Race Relations	Prof. R. Henry Prof. R. Henry
7.	Sociology	303-01	Sociology of Urban Regions	Prof. J. Tascone
8.	Sociology	305-01	Marriage	Prof. J. Tascone
9.	Sociology	307-01	Social Stratification	Dr. G. Dewey
10. 11.	Sociology Sociology	309-01 309-02	Mass Communications Mass Communications	Prof. T. McPhail Prof. T. McPhail
12.	Sociology	311-01	Small Group Interaction	Prof. T. McPhail
13.	Sociology	401-01	Social Change	Prof. L. Snider

Half Courses SECOND TERM

1. 5	Sociology 202-01 Sociology 202-02	Mass Society Mass Society	Prof. L. Snider Prof. L. Snider
3.	Sociology 204-01 Sociology 204-02	Minority Group Relations Minority Group Relations	Prof. R. Henry Prof. R. Henry
	Sociology 206-01	Social Deviance	Prof. L. Snider
	Sociology 302-01	Population and Demography	Dr. G. Dewey
7.	Sociology 304-01 Sociology 304-02	Organizations and Associations Organizations and Associations	Prof. T. McPhail Prof. T. McPhail
	Sociology 306-01	The Family	Prof. J. Tascone
10.	Sociology 308-01	Sociology of Religion	Dr. G. Dewey
	Sociology 310-01	Sociology of Developing Countries	Prof. R. Henry
	Sociology 402-01	Political Sociology	Prof. T. McPhail
	Sociology 404-01	Sociology of Education	Prof. J. Tascone

Programme leading to a B.A. with a Major in Sociology

Minimum of 21 credits including at least 7 credits in Sociology. Sociology 100 (or Sociology 201), 200, 300, 350 and 400 are required.

FIRST YEAR

Discontinued—See Collegial Program

SECOND YEAR

Second Term First Term English English -French French Classics* Classics* (Honours students-Sociology 200 see note below Sociology elective 202, 204, Sociology 200 206 (one course) Sociology elective 201, 203, Theology 205 (one course) Theology

THIRD YEAR

Second Term First Term Sociology 300 Sociology 300 Sociology 350 Sociology 350 Philosophy Philosophy Sociology electives 302, 304, 306, Sociology electives 301, 303, 306, 307, 309, 311 (one course) Psychology, History, Economics 308, 310 (one course) Psychology, History, Economics, Political Science (one or Political Science (one course) course)

FOURTH YEAR

First Term
Sociology 400
Philosophy
Electives (three courses)

Second Term
Sociology 400
Philosophy
Electives (three courses)

Programme leading to an Honours B.A. in Sociology

Minimum of 22 credits including at least 9 credits in Sociology. Sociology 100 (or Sociology 201), 200, 300, 350, 400 and 450 are required.

At the end of the freshman year Sociology majors must declare their intention to pursue an honours degree. Although no student will formally be designated as an honours student until the completion of the third year, only the intended honours students will be allowed to register for an additional Sociology course in the second year.

*Classics requirement will be waived during the second year. Should the intend honours student fail to maintain the minimum grade and other standards at the end of the third year, he will be permitted to continue as a Sociology major in his fourth year and required to make up the second year of Classics that was previously waived.

Further specifications concerning the honours programme in Sociology will be promogated before registration time in September, 1969.

FULL COURSES

100 Introductory Sociology.

To be appointed

Survey of the general area of Sociology as an intellectual enterprise. Basic concepts, fundamental principles, and pertinent empirical procedures will be emphasized together with an analysis of such important sociological themes as society, culture, and personality. More specifically, much attention will be given to substantive areas of sociological study: e.g., social class, institutions, social control, socialization, group conflict, social change, and the like.

Required of all students who select Sociology as their major during the first year. Texts: Rossides, Daniel W., Society as a Functional Process: An Introduction to Sociology.

200 Social Psychology.

Dr. J. Norris & Staff

A survey of the earliest social psychologists such as Comte, Tarde, LeBon and Mead and others form the basis of this course. After an examination of the relationship of this newest behavioural science to Sociology, Psychology and Anthropology, attention will be focused upon learning, perception, motivation, attitude formation and change. The last half of the year will be devoted to a study of roles, the socialization process, communication and persuasion.

Required of ALL Sociology majors.

Prerequisites: Sociology 100 or registration in Sociology 201 during the first half of the second year.

Texts: Selected reprints from the Bobbs-Merrill Series.

300 Social Research Methodology.

To be appointed

A study of the problems and procedures in sociological research. Special emphasis is upon the conceptualization process, hypothesis formation and testing and of the role of research in relation to theory. Data collection instruments and devices, including those which involve scaling and other forms of quantification of sociological variables and attributes will be examined as will those developed by the sociometric approach.

Required of ALL Sociology majors.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

350 Statistical Reasoning in Sociology.

Dr. J. Norris

This course will begin by familiarizing the student with the basic mathematical tools necessary for understanding elementary statistics. Following this, sample data descriptions and methods of summarization (means, medians, standard deviations, etc.) will be analyzed. The remainder of the first term will be devoted to elementary probability theory and its application to statistical inference and sampling. In the second term parametric and non-parametric tests of significance and an introduction to correlation analysis and analysis of variance will constitute the areas of study.

Required of ALL Sociology majors.

Prerequisites: Sociology 100 or Sociology 201.

Text: Freund, John E., Modern Elementary Statistics, 3rd Edition.

400 Sociological Theory.

Dr. G. Dewey

Early in the course, an historical survey of the social thought from Comte to Parsons is undertaken. Thereafter, a critical analysis of the competing theoretical systems in Sociology will be undertaken. A detailed examination of the symbolic interactionist and of the structure-functionalist positions completes the subject matter of this course.

Required of ALL Sociology majors.

Prerequisites: Full fourth year standing in Sociology.

Text: Coser, Louis & Rosenberg, Bernard, Editors, Sociological Theory, Rev. ed.

450 Honours Essay.

Staff

This course affords the student the opportunity to research a specific problem in Sociology which he has selected. During the course of the year, the student will devote his time to designing a research instrument, collecting data, and analysis. The student will be expected to write up his findings in thesis form at the end of the year.

Required of all Honours students.

Prerequisites: Statistics, Methodology and registration in Social Theory.

500 Social and Cultural Anthropology.

To be appointed

A presentation of the theories concerning the origin of man and his cultures opens this course. Also studies will be the dynamic aspects of culture with special attention directed to the processes of invention, diffusion, adaptation and integration as factors in social and cultural change. Cross-cultural studies, particularly those documented in the Human Relations Area Files constitute the foundation of this subject area.

Prerequisites: Open to 3rd and 4th year Arts students at the discretion of the Department of Sociology.

Text: To be announced.

600 Introduction to Social Work.

To be appointed

This course is intended to provide the student who is giving consideration to Social Work as a career an opportunity to finalize a decision by examining the nature and scope of this profession, its history and methods, and of the basic elements of the casework process, namely, the study, diagnosis and treatment procedures. Also examined will be the role of community resources in the casework approach.

This course is not acceptable as fulfilling any of the requirements for a major in Sociology but may be undertaken as an elective by students who have satisfactorily completed the first two years of study in Sociology, Psychology, Political Science, History or Economics.

HALF COURSES FIRST TERM

201 Systematic Sociology.

Dr. G. Dewey

An examination of the structures and processes of society using the basic concepts of scientific sociology. This course will also study the methods, theories and goals of the contemporary scientific and theoretical approaches to an understanding of social behaviour.

Required of ALL students who have not completed Sociology 100 and choose Sociology as a major field in their 2nd year.

Prerequisites: None.

Text: Smelser, Neil J., Sociology, Rev. Ed.

203 Canadian Society.

Prof. L. Snider

An exploration of the structure and dynamics of Canada with special emphasis upon its socio-economic class system. Using age, race, religion, ethnicity and sex as variables, comparisons will be made between Canada and other Western societies, particularly that of the United States. Inferences will be limited to those with empirically rooted validity and reliability.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

205 Criminology and Delinquency.

Prof. R. Henry

A study of crime and delinquency as social phenomena, the etiology of crime and the methods used to punish and/or reform the criminal are the principal areas of study in this course. Attention is also given to types of crime and criminals, organized crime, white-collar crime, the sociology of criminal law and the prison system.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

301 Race Relations.

Prof. R. Henry

A systematic description, analysis and explanation of the "White Problem" and how this historical problem is manifested in the social, political, economic and educational institutions of societies. While the course will basically concentrate on the United States and Canada, ample cross-cultural materials will be studied. Areas of study will emphasize prejudice-discrimination and racism and the role they play in maintaining the "White Problem", Civil Rights Organizations and the cause of riots.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

303 The Sociology of Urban Regions.

Prof. J. Tascone

A study of the process or urbanization as a world phenomenon. Analyses of urban ecology, urban social organization and structures, urban "personalities", leisure and human relations in cities form the principal areas of study in this course. City planning, and redevelopment programmes are critically examined.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

305 Marriage.

Prof. J. Tascone

An introduction to the sociology of the family using a developmental framework and beginning with personality formation, pre-dating, dating, mating and courtship and ending with the engagement and wedding. Marital prediction and adjustment tests and studies are examined. Problems of the contemporary marriage in the light of rapid social change in the past and present are discussed.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

307 Social Stratification.

Dr. G. Dewey

An examination of vertical and horizontal divisions within primitive and modern societies drawing from the classic studies of social class systems completed by sociologists and anthropologists.

Prerequisites: Sociology 100 or Sociology 201.

Text: Barber, Bernard, Social Stratification: A Comparative Analysis of Structure and Process.

309 Mass Communication.

Prof. T. McPhail

The focus of this course will be on the nature of communication as a social process, the relative influence and effect of person to person and mass-media to person communication in relation to attitude formation and change, behaviour, values and society in general. Particular emphasis is placed on the capacity of mass media to generate social action under varying social conditions.

Recent empirical studies are examined.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

311 Small Group Interaction.

Prof. T. McPhail

An introduction to structures and processes of the internal dynamics of small groups and their relationship to the individual and larger social systems. On the basis of field and laboratory research the impact of small groups will be examined with emphasis on cohesion, norms, leadership, communications and participation. Prerequisite: Sociology 100 or Sociology 201.

Text: To be announced.

401 Social Change.

Prof. L. Snider

Social change is distinguished from social dynamics early in the term. The major substantive changes of the past two centuries are analyzed as are the theories which attempt to explain them. Methods and findings of recent studies of change are critically examined as are programmes of planned change and social engineering. Prerequisites: Sociology 100 or Sociology 200.

Text: To be announced.

403 Problems in Sociology—Seminar.

Staff

Will not be offered in 1969/70.

A discussion of the conceptual, methodological, theoretical and idealogical problems confronting contemporary Sociology and sociologists. Some consideration is given to Sociology as an enterprise in the academic and non-academic spheres of modern, complex and rapidly changing societies.

Prerequisites: Full fourth year standing in Sociology AND approval of Department. Normally approval will not be given to a student who has less than an overall 70% grade level in all of his post-high school studies.

HALF COURSES SECOND TERM

202 Mass Society.

Prof. L. Snider

Collective behaviour including fads, fashions, crazes, mobs, riots, social movements and publics are analyzed and explained within a social-psychological framework. The origins and dynamics, internal and external, of social action and pressure groups are discussed. Mass communications, in terms of form and content are studied as factors in the various forms of collective behaviour. The implications of mass leisure with population qualities such as age, sex, racial and religious factors in urban centers are appraised.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

204 Minority Group Relations.

Prof. R. Henry

A systematic and objective analysis of the status of racial, ethnic, cultural and religious minorities and of the minority-majority relationship patterns drawing principally from Canadian and American studies but also from other cross-cultural materials. The consequences of majority or minority group status upon the socialization process for children in the respective groups are also studied.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

206 Social Deviance.

Prof. L. Snider

An examination of deviations from social norms which encounter social forms of disapproval and to which concepts and theories derived from contemporary scientific sociology and Social Psychology may be applied.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

208 Sociology of Poverty.

To be appointed

Will not be offered in 1969/70.

An analytic approach to the general sociological characteristics of poverty, and its effects on modern industrial societies. Special concern will be focused on the ramifications of poverty in the areas of politics, housing, health, unemployment, welfare and education.

Prerequisites: Sociology 100 or Sociology 201.

302 Population and Demography.

Dr. G. Dewey

An examination of present and future population densities, growth and composition and of factors related to population or demographic changes. Special attention is directed in the last half of the term to the "population explosion" as a social problem.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

304 Organizations and Associations.

Prof. T. McPhail

The formal and informal systems operating within large scale rational structures and voluntary associations are objectively analyzed and appraised. Patterned interaction and functional configurations between individuals within the organization or association and between organizations and other associations are examined; particularly the implications of the superordinate-subordinate relationship, leadership, morale and productivity; organizational conflict and change.

Prerequisites: Sociology 100 or Sociology 201 or departmental approval.

Text: To be announced.

306 The Family.

Prof. J. Tascone

An analysis of the family as a basic social institution within the structural-functional framework. Patterns of interaction between family members and between the family and other social institutions are studied. Sources of strain and tension in those relationships and the devices for the release of tension are discussed.

Prerequisites: Sociology 100 or Sociology 201.

Text: Kenkel, William F., The Family in Perspective.

308 Sociology of Religion.

Dr. G. Dewey

An exploration of the reciprocal influences of religion and religious behaviour on the one hand, and of culture and society on the other within a symbolic-interaction framework. A study of the social correlates of approved and disapproved religious actions receives special attention.

Prerequisites: Sociology 100 or Sociology 201.

Text: Yinger, J. Milton, Religion, Society and the Individual.

310 Sociology of Developing Countries.

Prof. R. Henry

An exploration of the ramifications of modernization upon the institutional structures of developing nations. The organizing principle of the course is from the perspective of social change and the following dimensions of modernization will be emphasized: Theoretical approaches to social change, evolution, Marxism, motivation, structural differentiation, economic development, diffusion and urbanization; also, aspects of secondary modernization will be studied, e.g., structural dualism, power and social protest and revolution.

The class will be small in size; the emphasis will be on student participation. Prerequisites: Sociology 100 or Sociology 201 or approval of Department of Sociology or Center for African Studies.

Text: To be announced.

402 Political Sociology.

Prof. T. McPhail

Sociological and social psychological determinants of political power, political parties, voting behaviour and socio-political movements are analyzed objectively and critically. Leadership and the cycle of leadership are studied within a social-psychological framework.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

404 The Sociology of Education.

Prof. J. Tascone

An analysis of the social relationships emerging within a formal educational system. Special emphasis will be upon teacher-student patterns in the classroom, teacher-administrator patterns with the school, plus teacher-teacher and student student relationship within the informal network of a school. Teaching as a profession and the various sub-cultures of the student population are also examined.

Prerequisites: Sociology 100 or Sociology 201.

Text: To be announced.

THEOLOGY



Associate Professor (Chairman) Professors

Associate Professor

Lecturers

Instructor

Rev. G. O'Brien, S.J. Rev. C. Henkey, Rev. E. O'Brien, S.J.

(Director, CTI)

Rev. W. Bedard, O.F.M.

Assistant Professors

Rev. R. Breen, Rev. W. Browne, S.J., P.
Garnet, J. Hofbeck, P. Jones, Rev. P.
Moroziuk, C. Paris, G. P. Richardson, A.

Webster, S. Wesolowsky

J. Collins, Sister Erin Malloy, Sister Mary

O'Brien, F. Sawyer, M. Spicer

Rabbi L. Poller

Courses leading to the FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Discontinued—See Collegial Program	Classics 112 or 202 or 212 or 221 French Philosophy THEOLOGY (Three Electives)	Philosophy Social Science THEOLOGY (Three Electives)	Philosophy THEOLOGY (Three Electives) One Elective

Courses leading to a B.A. with a Major in Theology				
FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR	
Discontinued—See Collegial Program	Classics 112 or 202 or 212 or 221 English French Philosophy THEOLOGY (Two Electives)	Philosophy Social Science (Two Electives) THEOLOGY (Two Electives)	Philosophy Philosophy Social Science THEOLOGY (Two Electives)	

207 Church and Society. Full Course.

Sr. M. O'Brien

The Second Vatican Council gives the dynamic impetus for the Church of the future. It views the Mystery of the Church in the paradoxical union between the human and the divine, and emphasizes that the Church which is to unfold is our responsibility. The course will study in a multi-dimensional approach involving discussion and research, the nature of the Church with the questions, problems and challenges faced by us who are the Church today.

Lectures: 3 hours per week.

215 Introduction to the Old Testament. Full Course.

P. Garnet

A religious studies course, which will be a survey of the contents of the Old Testament in the context of ancient Middle-Eastern history as revealed by archaeology and contemporary documents; literary analysis and development of religious ideas. Special attention will be given to Judges, Isaiah and Ezekiel.

216 Introduction to the New Testament. Full Course.

P. Garnet

(Not offered 1969-70)

The religious and cultural background of the New Testament. The tradition about Jesus; literary analysis of the gospels; the career of Jesus with special attention to his conception of Messiahship, his teaching on material earth, the Sermon on the Mount and the nature of the opposition to Jesus. The history of the church in the first century especially the work and teachings of Paul.

Lectures: 3 hours per week for two terms.

219 The Theology of Judaism. Full Course.

Rabbi H. L. Poller

The historical development of present day Jewish doctrines, rituals, observances, customs and practices. Beginning with Biblical origins and proceeding through all the significant events that form Jewish history and heritage, including where Judaism differs from Christianity and concluding with modern trends in Judaism.

Lectures: 3 hours per week.

220 Biblical Theology. Full Course.

A. Webster

The Nature of Faith in the Old and New Testaments. A study of the act of faith from the obedient faith of Abraham to the Pauline faith working in charity, man's response to divine revelation offering him the gift of divine adoption.

Lectures: 3 hours per week.

221 Christianity and Communism. Full Course.

P. Moroziuk

Discussion of Christian and Marxist ideologies concerning man, evil and society. Marxist solution to social problems: Communism. Function of Christianity and Communism as religion. The possibility of a god-less culture and society. Contemporary conditions and the future of religion in a communist society.

Lectures: 3 hours per week.

224 Covenant of God and Man. Full Course.

W. Bedard

God as he manifests himself and his designs for mankind in the Sinai Covenant and its preludes. Man's response to God's design: the Covenant accepted, broken repeatedly, and renewed repeatedly. Man's response in Christ: the fulfillment of the Covenant in Christ and his members, the true People of God. The sacraments and Christian living within the Covenant.

Lectures: 3 hours per week

230 Religion and Reason. Full Course.

P. Garnet

A religious studies course, which will be a survey of representative approaches, past and present to the problems of personal immortality, the nature of ultimate reality, religious language, the knowledge of God, the relationship of science to religion, free will and the existence of evil.

Lectures: 3 hours per week.

232 Theology of History. Full Course.

M. Spicer

The course entails: a) an introduction to the problem of a theological meaning of history; b) a consideration of the uniqueness of Christianity in contrast to Idealism; c) a discussion of several contemporary theologians speaking on the meaning of history, such as Metz, Moltmann and Pannenberg.

Lectures: 3 hours per week.

233 Christianity. Conflict and Growth. Full Course.

G. O'Brien

Historical, cultural, and theological currents of thought have served to shape Christianity. The course will try to uncover what contributions or deformations involved Christianity as seen in the context of the Reformation; the Rise of Modern Science, the Enlightenment. The continuing effects of these three will be examined through the thought patterns of the nineteenth and twentieth centuries.

Lectures: 3 hours per week.

234 The 16th Century Reformation and Vatican II.

P. Richardson

There are many points of contact between the recent Council and the Protestant Reformation. Much of the Council can only be understood in the light of the twentieth century Biblical theology movement; similarly, the Reformation was strong in its emphasis on the use of the Bible. A comparison of these will provide a good basis for understanding how modern Christians approach the Bible today. Lectures: 3 hours per week.

236 Cosmic Dimensions of Christianity. Full Course.

Sawyer

The cosmic values of man involves an awareness of who man is. Working on the presupposition that visible symbols are basic to man's structure, we then proceed to an understanding of this world and therefore an encounter through it with Christ. Lectures: 3 hours per week.

238 Theology of Worship, Full Course,

J. Collins

A study of the self-realization of the Christian through the liturgy. The purpose of the course will be to deepen our understanding of the Christian reality by a study of the ways we encounter God, here and now, through Christ in the Church, the Mass and the Sacraments. Emphasis will be placed on the theological reasons behind the renewal now taking place in the liturgy.

Lectures: 3 hours per week.

239 The Ecumenical Movement. Full Course.

R. Breen

This course will trace the development of the Ecumenical Movement both within Protestantism, Anglicanism and Orthodoxy through the World Council of Churches and within the Roman Catholic Church. The student will be introduced to the main theological problems which have been treated at the World Conferences on Faith and Order since 1927.

Lectures: 3 hours per week.

241 The Theology of the Gospel of Mark. Full Course.

E. O'Brien

A literary, historical, and doctrinal analysis of the earliest of the four canonical Gospels. Designed to introduce the student to the methodology of New Testament interpretation in general and to the abiding nature and functions of Christian theology in particular that are revealed therein, the course addresses itself to the questions "Who was Jesus?" and "What is a Christian?"

Lectures: 3 hours per week.

243 The Converging Traditions (Ecumenical Theology). Full Course.

P. Jones

A study of the origins and development of the Orthodox, Protestant, and Roman Catholic Communities. Christian consensus and divergence on the nature of the Church of Christ. The movement towards an eventual united Christendom. Historical, Doctrinal, Psychological, Structural, Liturgical, and Sociological obstacles to the unity of Christians. The challenge of renewal.

246 Theology of the Church. Full Course.

W. Browne

A study of the meaning of the Church from its foundations as seen first of all in the Old Testament; next in the Gospel of Matthew and the Epistle to the Ephesians; finally a brief study of the first major encounter of the church with a world religion, Islam.

Lectures: 3 hours per week.

247 Symbolism in Paul Tillich. Full Course.

F. Sawyer

Since Paul Tillich's concept of religious symbol is closely connected with his view of God, this course will deal with the relation of religious symbols to human experience and to God. There will be an analysis of Tillich's views on sign and symbol leading into an examination of his presentation of religious truth.

Lectures: 3 hours per week.

253 Theology of the Body. Full Course.

J. Hofbeck

Every theology, more or less consciously, is based on a certain understanding of our body. Following the historical evolution of this understanding we will reconsider the main points of our Christian theology. Conversely, this critical discussion will lead to a genuine *Christian* interpretation of our body.

Lectures: 3 hours per week.

256 Theological Ethics (Part I. Fundamental Principles). Full Course.

B. Somfai

(Not offered 1969-70)

After a short introduction to Theology and its methods, this course includes: first, a historical, philosophical and biblical analysis of the moral experience; and then, facing the challenge of secularism, it proceeds to explain the fundamental principles of Christian moral life as they are derived from our vocation in Christ. The following questions will be emphasized particularly: the Christian concept of man and human life, the essence and sources of morality, the norms of morality.

Lectures: 3 hours per week.

265 Science and Religion. Full Course.

S. Wesolowsky

A study of some of the representative classic and contemporary formulations of the conflict between science and religion. This course will examine both the types and the bases of various claims made in the areas of science and religion.

Lectures: 3 hours per week.

275 The Nature of Religious Language, Full Course,

S. Wesolowsky

A critical analysis of some of the predominant forms of human expression, both discoursive and non-discoursive, and their use in religious language. This study will then inquire into the characteristics of religious language and into the current views generated from such an inquiry.

Lectures: 3 hours per week.

280 Eastern Christianity. Full Course.

P. Moroziuk

A historical survey of the origin and development of Byzantine and Slavic Christendom. Cultural and sociological factors which determined Eastern Christianity as Orthodoxy will be treated. Discussion of Orthodox doctrinal position on such issues of Christian thought as God, man, society. The relevance of this form of Christianity to modern man and society.

Lectures: 3 hours per week.

283 Belief and Unbelief, Full Course.

C. Paris

An attempt to understand man and to search for ultimate meaning in the propositions of believer and unbeliever. The varieties of belief and the varieties of unbelief will make up a great portion of the year's work. The main themes will center about Christian belief and unbelief in its modern atheistic expression.

Lectures: 3 hours per week.

284 The Church and the World. Full Course.

C. Paris

The Church and the World in conflict. In the definition and description of the three terms involved in that first sentence there will be a basic question: Is the conflict that exists between the Church and the World creative or destructive for the individual and society.

Lectures: 3 hours per week.

288 God and the Values of Modern Man. Full Course.

E. Malloy

What are the roles of human values in the life of religious man? What are the essential and popular values today? Can human values be signs of God to man? Lectures: 3 hours per week.

289 Man in relation to the World Today. Full Course.

E. Malloy

This is a study of man as he is religious which includes reflection on his freedom to assume or ignore his responsibility for co-creating the world.

Lectures: 3 hours per week.

295 Reality of God. Half Course.

W. Bedard

Certain images of God are being questioned as remote from a scientific age, or an urbanized society, or an anguished world. Correspondingly, there is a new interest in "the compassionate Christ". The course will evaluate these trends in the light of God's self-revelation that culminated in Christ.

Lectures: 3 hours per week for the first term.

296 Reality of Grace. Half Course.

W. Bedard

The Scriptural data. Its understanding by the Fathers and Councils. The insights of theologians. Grace in the documents of Vatican II.

Lectures: 3 hours per week for the second term.

302 Theology of the Woman. Half Course.

C. H. Henkey

In the modern secular thought which is not all wrong christology becomes anthropology. Consequently Mariology then should turn into an investigation of the mystery of womanhood, which certainly is not rooted in sexuality, but of which the sexual aspect is only a partial and imperfect expression.

Lectures: 3 hours per week first term.

303 The Johannine Writings. Full Course.

E. O'Brien

(Not offered 1969-70)

The whole Johannine corpus, Gospel, Letters and Apocalypse will be interpreted in the context of first century theology.

Lectures: 3 hours per week for two terms.

312 Jesus of Nazareth. Full Course.

P. Garnet

A religious studies course in which we shall study such questions as: What can now be known historically about the founder of the Christian religion? What was the nature of the authority (if any) he claimed? What was his diagnosis of the cause of the human predicament and what remedies did he propound?

Lectures: 3 hours per week.

313 The Theology of Hope. Full Course.

W. Bedard

This current development among Catholic and non-Catholic theologians will be studied in texts from Moltmann, Pannenberg, and Metz. For "the futuristic humanism with which it carries on conversation" some collateral reading will be expected. The student will endeavour to situate the new thinking in the context of biblical theology. Hence there will be constant reference to Scripture and the theological material in the Jerusalem Bible.

Lectures: 3 hours per week.

314 Theology of Symbolism. Full Course.

W. Browne

The course will consist of two parts. The first will be a study of the symbolism of the Christian Sacraments. The second a theological evaluation of the artistic expression of man's religious attitudes as seen in dance, painting, sculpture, music, architecture.

Lectures: 3 hours per week.

315 Theology of Religions. Full Course.

G. O'Brien

A consideration of the basic religious attitudes and postures of primitive man and of the nature and role of religion in his life. An attempt will be made to assess the contribution of the religion of primitive man to certain historical religions.

Lectures: 3 hours per week.

316 The Encounter between Christianity and Eastern Religions: failure and promise. Full Course.

G. O'Brien

(Not offered 1969-70)

A descriptive analysis of the elements that constitute Christianity and Hinduism and Buddhism. An historical and theological investigation will seek to analyze the reasons for the past inadequacies and limited achievements in reciprocal understanding.

Lectures: 3 hours per week for two terms.

317 Authority, Freedom, Anarchy. Full Course.

P. Richardson

Every institution of government, society, religion, business shares in the tensions produced by tendencies toward or away from authoritarianism - and the reaction this creates. Christianity has always had difficulty with this issue. The problem today will be studied largely on the basis of the way the first century Church interpreted these tensions through its understanding of the Holy Spirit.

Lectures: 3 hours per week.

318 Newman. Full Course.

A. Webster

(Not offered 1969-70)

The continuing relevance of Newman as studied through his writings. This study will lead into an exploration of the contemporary issues on 1) Modernism, 2) The relation between faith and reason, 3) The development of Christian doctrine.

Lectures: 3 hours per week for two terms.

321 Theology of Politics. Full Course.

A. Webster

A study of a variety of political forms of human existence in space and time, and of different political theories. This course will deal with the historical reciprocity between political structures and the religious expressions of man's social and political existence.

Lectures: 3 hours per week.

322 Introduction to the Prophets. Half Course.

W. Browne

The twelve minor prophets and Isaias will be the material studied. We shall examine the original meaning of the prophecies, their fulfillment in Christ and their relevance for modern man.

Lectures: 3 hours per week.

323 Theology of the Psalms. Half Course.

W. Browne

The Psalter is a unique collection of prayers bringing together all the spiritual aspirations of man in his search for God. We shall study the Psalms in their historical setting, their structure and significance, with special emphasis on the Passover and the Paschal Mystery.

Lectures: 3 hours per week.

337 Early Christian writers. Full Course.

F. Sawyer

This course will undertake a historical investigation of both the theological and philosophical reflections on authors of Christianity of the first five centuries. This course should be of specific interest for students in History, Philosophy and Theology.

338 Marriage. Full Course.

J. Collins

An historical and sacramental approach with an awareness of the contributions other sciences make to the understanding of the human reality of marriage, e.g., medicine, sociology, psychology, and philosophy. The human actions of married people are essential to the sacramental reality of Christ's presence in the world through the incarnation of his love and revelation of himself in the sacrament of matrimony. The course will be concerned with deepening our understanding of the mystery of love which is Christian marriage along with an investigation of the challenges facing those preparing for and beginning married life.

Lectures: 3 hours per week.

341 Christ in Tradition. Full Course.

P. Jones

A Biblical, Historical, and Theological investigation into the central mystery of the Christ. The Incarnation in John's Gospel and in the Pauline writings. Jewish-Christian theology of the second century. Emergence of Hellenism. Chalcedon—end or beginning? Western christology in Augustine. Influences on later western Christianity. Modern christologies: Paul van Buren, Teilhard de Chardin, Nicholas Berdyaev.

Lectures: 3 hours per week.

342 Contemporary Atheism. Full Course.

J. Hofbeck

The Christian of today has to face an accelerated process of secularization and new forms of atheism. This course intends to analyze the contemporary phenomenon "atheism", to examine its roots, to raise the question of its positive meaning, and to define a Christian attitude towards it. Through this dialogue with atheism we would attempt to uncover the essentials of Christianity itself.

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346 Contemporary Russian Religious Thought, Full Course.

P. Moroziuk

A confrontation with Russian personalities, ideas and issues: Vladimir Soloviev: one of the most original Christian thinkers of the 19th century; Sergei Bulgakov: a marxist who becomes a priest; Nicolai Berdyaev: a marxist who becomes one of the most inspiring religious philosophers of the 20th century.

Lectures: 3 hours per week.

347 Seminar on Hans Urs Von Balthasar, Full Course.

S. Wesolowsky

(Not offered in 1969-70)

A methodological inquiry into some of the many achievements of one of the greatest theologians of this century. Of special interest will be his contributions in the field of patristics, his theologies of dialogue with Judaism and with Protestantism, and his recent work toward a theology of beauty.

Lectures: 3 hours per week for two terms.

348 Theology of Labor, Full Course,

E. Malloy

What is the relationship between man, labour and the world? This is a cultural and theological consideration of the elements contributing towards a re-definition of labour for today.

Lectures: 3 hours per week.

349 Seminar on KARL RAHNER.

J. Hofbeck

(Not offered in 1969-70)

The work of Karl Rahner, one of the most influential theologians at the present time, consists almost exclusively of short essays on different topics. Studying his easiest writings we will concentrate our attention on the method of Karl Rahner in order to learn with him how to face intellectually, as Christians, the problems of a changing world.

Lectures: 3 hours per week for two terms.

352 Nineteenth Century Criticism of Christianity. Full Course.

M. Spicer

The course entails: a) an introductory consideration of the Enlightenment, in particular, Lessing as theologian; b) theological perspectives of Schleiermacher and Hegel; c) the theological reductions and criticisms of Strauss, Feuerbach, Marx, Kierkegaard and Nietzsche.

Lectures: 3 hours per week.

353 Seminar on Saint Augustine: Works and Influence. Half Course.

P. Jones

Augustine as the end of the primitive age and the beginning of Medieval Christendom. The City of God. The dispute with Pelagius and Augustine's theology of Grace and Sin. Effects of this theology on the Medieval Church and Western Civilization.

Lectures: 3 hours per week.

354 Paul's Letter to the Church at Rome. Full Course.

P. Richardson

A study of Paul's most organized description of the problems he faced as an itinerant preacher, and the only detailed treatment of his methodology. The central problem concerns Jews and Greeks and the nature of the Gospel: there is a general Jewish rejection of the good news, and a widespread Gentile acceptance. This issue runs not just through the letter, but through the early Church's history, and continues to have implications for today.

Lectures: 3 hours per week.

356 Theology and Philosophy, Full Course.

J. Hofbeck

(Not offered in 1969-70)

An inter-disciplinary course dealing with the following problems: How can a good philosopher also be a good Christian? And why must a good theologian be a good philosopher at the same time? A view of the more or less dramatic encounter of both disciplines during the history of our western civilization will show us the present character of this problem. An attempt will be made to give an answer to this question in the wider context of the relationship between nature and grace. Lectures: 3 hours per week for two terms.

358 Prayer in Contemporary Theology. Half Course.

W. Bedard

(Not offered in 1969-70)

A new thirst for inner religious experience is being felt today after the one-sided stress placed by the radical theologians upon social mission and involvement. Against this background, the course offers exploratory readings in Guardini, Rahner, Bruckberger, Nedoncelle, Urs von Balthasar, Danielou, and others, Their theological principles on prayer will be used to evaluate a number of more popular current religious authors.

Lectures: 3 hours per week.

360 Theology of the Eucharistic Sacrifice. Full Course.

J. Collins

A study of the self-realization of the Christian through the Mass. The contemporary renewal in the Church is characterized by a greater awareness of the nature of the Church and the Liturgy. The purpose of the course will be to deepen our understanding and living of the Christian reality by a study of the Eucharistic action which brings the Church into being and manifests the very essence of Christianity. Special attention will be given to the reform of the Roman canon.

Lectures: 3 hours per week.

362 Theological Ethics. (Part II. Special Problems). Full Course. B. Somfai

(Not offered 1969-70)

As an introduction, the course includes a study of the fundamental moral principles of Christian moral life; then it proceeds with an analysis of Christian virtues and it highlights some of the problems of contemporary Christian moral life. Among these, the questions of natural law and situation ethics, some problems of sexual ethics and marriage-morality will be discussed along with selected questions of social ethics.

Lectures: 3 hours per week.

366 Theology of Revelation. Half Course.

C. Henkey

(Not offered 1969-70)

The basic context for theology is not whatever man can think, guess, explore about God, but what God has revealed of himself. So theology is based upon the fact of dialogue between God and man. Our intention is to explore the possibilities, the structures of the historically unfolding divine self-communication.

Lectures: 3 hours per week.

368 The Holy Books. Half Course. First Term.

C. Henkey

The sacred books seem to belong to the necessary structure of a high-religion. We shall review the principal sacred books from the Book of the dead of Egypt up to the Book of Mormon or even Mrs. M. B. Eddy's Science and Health. On different degrees and in varying patterns those holy books claim divine origin, inspiredness.

371 Psychology and Religion. Full Course.

M. Spicer

Keeping a religious dimension in view, the course entails: a) a description and analysis of Freud and Jung; b) a survey of non-Freudian insights into the human structure in such writers as, Allport, Rogers, Maslow and May.

Lectures: 3 hours per week.

372 Mariology. Half Course.

C. Henkey

(Not offered 1969-70)

In the incarnation the Son of God did not become just a man. He joined the human family as "the Son" which means a special concrete position in the personal social structure of humanity. Consequently the study of the mother of God is an integral part of our theology and also the ultimate answer about the dignity of woman. Lectures: 3 hours per week.

375 Christian Perspectives of Marriage. Full Course.

C. Paris

A consideration of marriage both as institution and way of life. The first section will consider the Christian institution in its history and tradition following its development within the various periods of Western Christian society. Marriage as life experience will be discussed in the second semester. The specific aim of this section will be to clarify how modern human sciences enlighten our knowledge of the Christian concept of marriage.

Lectures: 3 hours per week.

376 Authority in the Church. Full Course.

R. Breen

The problem of authority in the Church will be studied in this course. After delving into the characteristics of all Christian authority as seen in the New Testament, especially in the modus agendi of Christ, a detailed study will be made of the question of the transmission of that authority - apostolic succession - and of the exercise of doctrinal authority. The traditional debate will be studied as well as the more recent ecumenical prospectus.

Lectures: 3 hours per week.

377 Renewal in the Anglican Church of the 19th Century. Full Course.

R. Breen

Especially since the 2nd Vatican Council the Roman Catholic Church has been going through a great process of renewal. A similar, albeit unstructured and to a certain extent unauthoritative type of renewal was experienced by the English Church in the Victorian era. This course is an historical and theological study of this renewal, especially as it is seen in the lives and in the writings of three Anglican Divines, John Henry Newman, Frederick Denison Maurice and Charles Gore.

Lectures: 3 hours per week.

379 Seminar in Martin Luther: Works and Influence. Half Course.

P. Jones

Luther's differences with traditional Catholicism - Justification by Faith, Authority of the Scriptures, Priesthood of all Christians. Misunderstandings of traditional teachings. Political background to the Reformation. Luther's influence on later Catholic and Protestant thought.

Lectures: 3 hours per week.

385 Issues in Christian Anthropology. Full Course.

S. Wesolowsky

An inter-disciplinary course, dealing with both anthropological and theological material, which will be a study of a number of structures of human existence and their interrelations, not only in their individual aspects, but also in their social and historical dimensions. The play, work, sexual and political elements of men's existence will be emphasized.

Lectures: 3 hours per week.

386 Doctrinal Re-statements of Vatican II. Half Course.

W. Bedard

(Not offered in 1969-70)

Unlike earlier councils, Vatican II did not define dogmas but formulated traditional doctrines in new contexts and with new emphases. The documents of Vatican II will be read for the theological significance and challenge of this new presentation of the Church's heritage.

Lectures: 3 hours per week.

403 Theological Studies in the Academic Community.

Staff

Student, professor reflection on the phenomenon of theology in the academic community. Creative participation in seminars will determine the most important questions in this area and those elements which may contribute towards a further study. Lectures: 3 hours per week.

406 Theology as Art. Full Course.

M. Spicer

A research into the imaginative and theopoetic dimensions of theology. Lectures: 3 hours per week.

415 Studies in Modern Theologians. (Balthasar, Barth, Przywara, de Lubac). Full Course. S. Wesolowsky

Lectures: 3 hours per week.

418 Situation and Decision (Seminar on problems connected with Situation Ethics). Full Course. B. Somfai

(Not offered 1969-70)

The course includes selected readings in contemporary literature, and a study of different authors in the fields of "situational" and "principled" ethics.

Lectures: 3 hours per week.

421 Theology of Politics. Full Course.

A. Webster

A study of the historical reciprocity between political structures and the theological expressions of man's social and political existence.

Lectures: 3 hours per week.

422 New Testament Christologies and the Christ. Full Course. P. Richardson Directed study and seminars dealing with the key sections of the New Testament relating to the person of Jesus of Nazareth. Their sources and the relationships between them will be examined.

Lectures: 3 hours per week.

426 Theology of Acts and the Pauline Epistles. Full Course.

W. Bedard

A colloquium. The Acts of the Apostles will be used as background to show how Paul's theology, while rooted in revelation, developed from actual situations.

427 Colloquium on Paul Tillich.

F. Sawyer

A study in the method and the achievement of Tillich, one of the great Protestant theologians of this century.

Lectures: 3 hours per week.

428 Seminar on Teilhard de Chardin. 2 Half Courses. First Term. C. Henkey

I. A research into Teilhard's evolutionary worldview which on the one hand is built upon the phenomenological observations of the scientist and on the other on the mystical experience of the cosmic Christ.

II. Special investigation of controversial problems raised by Teilhard's writings as "the omega point", the problem of evil, the cosmic function of the eucharist, etc. Lectures: 3 hours per week.

J. Hofbeck 432 Biblical Foundations of Dogmatic Theology. Full Course.

Explorations in the relationship between scripture and theology and the application of this approach to a number of fundamental themes.

Lectures: 3 hours per week.

436 The Future Shape of Christianity. Full Course.

P. W. Jones

(Not offered in 1969-70)

The role of tradition in shaping the future of the Christian message and community. The Christian Church as avant-garde in society. The Christian diaspora and its implications. Groupings after the Christian ideal in modern novels and films. Christianity and atheism.

Lectures: 3 hours per week.

Peter Moroziuk 442 Orthodox Ecclesiology (Seminar). Full Course.

A historical study of the evolution of Orthodox Ecclesiology, which will indicate the fundamental differences.

Lectures: 3 hours per week.

Seminar in Contemporary Mass Media and Revelation. Full Course. Confer Communication Arts 450

The most fundamental problems of man will be explored through a systematic encounter of contemporary mass media and revelation. The approach will be mainly creative with individual and group projects. This encounter should lead to a more explicit awareness of various levels of meaning to be found in contemporary mass media.

Lectures: 3 hours per week.

446 Neoplatonism in Medieval Theology. Full Course.

M. Spicer

(Not offered in 1969-70)

A research tracing the unfolding of the Neoplatonic thought from the Greek period to the late Middle Ages. The course will also be a reconsideration of the theological import of Neoplatonism.

Lectures: 3 hours per week.

447 Readings in Liturgical Theology. Full Course.

W. Browne

Seminar on celebrated theologians concerning the liturgy. Bouyer, Danielou, Jungmann, Rahner and others.

Lectures: 3 hours per week.

450 Comparative Religion. Full Course.

G. O'Brien

A more comprehensive and "in depth" study of aspects treated in more summary fashion in the lectures of Theology 315 and Theology 316.

Lectures: 3 hours per week.

452 Modern Ecclesiological Problems. Full Course.

G. O'Brien

(Not offered in 1969-70)

The tutorial will concern itself with guided research in one or more of the areas treated in Theology 233.

Lectures: 3 hours per week.

453 Theology and Literature. Full Course.

G. O'Brien

Individual or group investigation into the theological dimensions of the human problems facing man as seen in the context of modern literature.

SCHOLARSHIPS, BURSARIES AND AWARDS

Scholarships

A scholarship is an award granted annually to a student for academic excellence, which may be renewed if the student maintains an above average (70% overall average) academic standing.

The students will not receive cash unless otherwise stated, but their tuition fees will be fully or partly paid by the scholarships and only the remainder by the students themselves, depending on the value of the scholarships awarded.

The value of Endowed Scholarships may fluctuate depending on the current interest rates. Apart from Entrance Scholarships, candidates for scholarships must have completed at least one year at Loyola College, these students will not have to apply for scholarships, they will be awarded according to their marks and openings available.

No student will be considered eligible for a scholarship who has failed any year in his college or university education. Consideration will, however, be given to the student who has obtained more than a 70% average in each of the two years following the year repeated, e.g., a student who fails in Freshman may be eligible only in his Senior year; a student who fails in Sophomore, Junior, or Senior will not be eligible.

No student with supplemental examinations will be eligible for a scholarship, or if he already holds a scholarship, for its renewal.

For renewal of a scholarship, the student holding the scholarship must obtain an overall average of 70% or more for the current academic year, and must have passed all his final examinations in the courses in which he is registered.

If a student holding a scholarship decides to change faculty he will retain the scholarship only on condition that he receives the approval of the Scholarship Committee.

No student may hold more than one scholarship from the College at any one time.

A. Endowed Scholarships

THE LILLY F. BARRY SCHOLARSHIPS. 3 - Value: Full Tuition.

THE URSULA CARLING SCHOLARSHIPS. These are an endowment from the estate of the late Mrs. Ursula Carling. 2 - Value: \$250. each.

THE CLORAN MEMORIAL SCHOLARSHIP. Value: \$80.

THE COLLINS-HEFFERNAN SCHOLARSHIP. Funds from the Mary Ellen Heffernan Bursary and from the Nelson Collins Scholarship. Value: \$200.

THE CUDDY-STANFORD MEMORIAL SCHOLARSHIP. Funds from the John M. Cuddy Scholarship and from the Stanford Memorial Scholarship. Value: \$200.

THE DOWLING-MORIARTY SCHOLARSHIP. Funds from the estate of the late Francis J. Dowling and of the late Mrs. E. Stowell, widow of John Moriarty. Value: \$200.

THE MRS. F. J. DUCKETT SCHOLARSHIP. From the Estate of the late Mrs. F. J. Duckett. Value: \$200.

THE FRIENDS OF LOYOLA SCHOLARSHIP. From the funds endowed for the James Corcoran Scholarship, the Rev. William Doherty Scholarship, the Dollard Scholarship, and the Gregory O'Bryan Scholarship, and from funds given by the Student's Penny Scholarship. Value: \$200.

THE ARTHUR HALLEY MEMORIAL SCHOLARSHIP. Endowment from P. F. Halley of St. John's Newfoundland in memory of his son, Arthur, a graduate of the Pre-Medical class of 1946, magna cum laude, who died on the eve of Convocation. Value: \$100.

THE MR. AND MRS. THOMAS WILLIAM KAVANAUGH MEMORIAL SCHOLARSHIP. Donated by the Rev. Thomas W. Kavanaugh. Value: \$120.

THE LOYOLA SODALITY SCHOLARSHIP. Funds from the Sodality Scholarship and from the Loyola Scholarship Club Association Bursary. Value: \$200.

THE MAHONEY-MURPHY MEMORIAL SCHOLARSHIP. Originally established as the Mother Ellen Memorial Scholarship, and as the John Walsh Murphy Memorial Scholarship. Value: \$200.

THE KENNETH J. McARDLE MEMORIAL SCHOLARSHIP. Donated by Mrs. Mary McArdle as a tribute to the memory of her late husband Kenneth J. McArdle. Value: \$125.

THE ST. IGNATIUS PARISH SCHOLARSHIP. Money collected and presented to the St. Ignatius Men's Association and originally known as the Coronation Arts Courses Scholarship. Value: \$100.

THE SHARP-O'REILLY SCHOLARSHIP. Funds from the Alice M. Sharp Scholarship and from the Winnifred O'Reilly Memorial Bursary. Value: \$200.

B. Gifts by the College

LOYOLA COLLEGE SCHOLARSHIPS. Entrance Scholarships are awarded by the Scholarship Committee to students entering Loyola College in first and second year. Loyola Scholarships are a recognition of academic excellence. These valuable awards, which cover up to full tuition, are automatically renewable from year to year until the student obtains his degree as long as the student performs satisfactorily. A student's performance is judged satisfactory if a student passes every course without supplemental examinations, and obtains an overall average of at least 70% in each year at Loyola College. These Scholarships are awarded on the basis of the principal's recommendation; Official Academic Records; Results of C.E.E.B. Tests and an interview if required. Applications with all required documents must be forwarded to Loyola College, Director, Financial Aid, PRIOR TO MARCH 15th.

SUSAN LANGLEY SCHOLARSHIPS. Endowed scholarship established by Mr. and Mrs. M. J. McCormick in memory of the late Susan Langley; offered to Freshmen with high Academic standing who do not qualify for Loyola Entrance Scholarships. Non-renewable. 2 - Value \$250, each.

SECOND YEAR

ARTS, Number: 14. Value: Full Tuition. COMMERCE, Number: 2. Value: Full Tuition. SCIENCE, Number: 10. Value: Full Tuition. ENGINEERING, Number: 2. Value: Full Tuition.

THIRD YEAR

ARTS, Number: 9. Value: Full Tuition. COMMERCE, Number: 3. Value: Full Tuition. SCIENCE, Number: 18. Value: Full Tuition. ENGINEERING, Number: 3. Value: Full Tuition.

FOURTH YEAR

ARTS, Number: 14. Value: Full Tuition. COMMERCE, Number: 3. Value: Full Tuition. SCIENCE, Number: 9. Value: Full Tuition. ENGINEERING, Number: 5. Value: Full Tuition.

THE BARTLETT-DOHERTY MEMORIAL SCHOLARSHIP. Value: \$80.

THE GASSON MEMORIAL SCHOLARSHIP. Value: \$200.

THE JONES MEMORIAL SCHOLARSHIP. Value: \$200.

THE McCARTHY MEMORIAL SCHOLARSHIP. Value: \$200.

THE McMAHON MEMORIAL SCHOLARSHIP. Value: \$160.

THE O'BRYAN MEMORIAL SCHOLARSHIP. Value: \$200.

THE O'DOWD MEMORIAL SCHOLARSHIP. Value: \$200.

THE PRESIDENT'S SCHOLARSHIPS. Number 3. Value: One, \$160; two, \$150 each.

THE J. S. O'NEIL SCHOLARSHIP. Donated by J. S. O'Neil. Value: \$150.

C. Annual gift scholarships

THE CHARLES BROWN MEMORIAL SCHOLARSHIP. Value: \$50.

THE MRS. CHARLES BROWN SCHOLARSHIPS. Number: Two. Value: \$100, each.

THE GUTELIUS MEMORIAL SCHOLARSHIP. Value: \$100.

THE KNIGHTS OF COLUMBUS COUNCIL 284 SCHOLARSHIP. Value: \$150.

THE STATE COUNCIL, KNIGHTS OF COLUMBUS, PROVINCE OF QUEBEC SCHOLARSHIP. Value: \$100.

Bursaries

A Bursary is a sum of money given to a student in order to assist him financially in the continuation of his studies.

All students expecting to need bursary assistance must first apply to their own home Province or State (home is where parents reside) and accept the maximum loan and bursary offered by these sources before applying to Loyola for such aid. This means that University funds cannot normally be used to compensate for a student's failure to apply for and accept the maximum Government loan and bursary available to them.

Should a student need more than this maximum Government assistance a bursary may be granted.

A bursary will take the form of a credit to the student's tuition account. Ordinarily bursaries will not be awarded to students with less than a 50% overall average. Applications for Bursaries should be made in writing as early as possible after Registration to the Director, Financial Aid, Loyola College, Montreal.

Government Loan Plans

The Province of Quebec has an extensive programme of Student Loans and Bursaries available to students. For application forms write to: Department of Education Student Aid Service, Parliament Buildings, Quebec, 4, Quebec. Ontario: Department of University Affairs, Suite 700, 481 University Avenue, Toronto, 2, Ontario. New Brunswick: Department of Youth and Welfare, Fredericton, New Brunswick. For the provinces of Newfoundland, Prince Edward Island, Nova Scotia, Manitoba, Saskatchewan, Alberta and British Columbia write to the Provincial Department of Education.

To be eligible under the plan your parents must live in the Province to which you are applying; or if you are a landed immigrant with at least one year of residence and indicate your intention to remain in the Province.

United States Students

Maine: Apply through the United Student Aid Fund, Form 1070, available at your home Bank. Students from other of the United States: Apply to The Higher Education Assistance Corporation. Your Bank has these application forms. NOTE: For any of the above it is important that you apply as early as possible. You do not have to wait for registration.

THE IBM THOMAS J. WATSON MEMORIAL BURSARIES. Donated by the International Business Machines Company Limited as part of the IBM Thomas J. Watson Memorial Bursary Programme. Number: Two. Value: \$500, each. Awarded annually to needy undergraduates in any year and any faculty who are in good academic standing. Apply to the Director, Financial Aid. As soon as possible.

THE LOYOLA ALUMNI ASSOCIATION UNDERGRADUATE BURSA-RIES: Value: \$100 each. Awarded annually to talented and deserving students who have completed at least one year at Loyola College. Apply, Director of Alumni Affairs, Loyola College.

THE LOYOLA ALUMNI ASSOCIATION POST GRADUATE BURSA-RIES: Number: Four. Value: \$200, each. Awarded annually to talented and deserving students of the current graduating class who have been accepted for post graduate work at a recognized University. Apply, Director of Alumni Affairs, Loyola College.

THE LOYOLA AFRICAN BURSARIES. Type "A", Number: four. Value: varies, but includes full tuition, registration fee, room and board, etc. Awarded to qualified and deserving students from any country in Africa who intend to aid in their homeland's development. Type "B", number: six. Value: varies, but includes full tuition and registration fee. Awarded on the same conditions as Type "A".

THE LOYOLA BURSARY FOR THE BLIND. Number: one. Value: full tuition for one year; renewable. To a blind student who is qualified to follow regular courses.

THE ST. PATRICK'S SOCIETY BURSARY. Number: two. Value: \$200. Awarded annually by the St. Patrick's Society of Montreal, preferably to a Fourth Year Student, in any faculty, who is Irish or of Irish extraction. Application forms may be obtained at the office of the Director, Financial Aid. Closing date is December 20.

THE TOUCHE, ROSS, BAILEY AND SMART BURSARY. Number: one. Value: \$200. "The Bursary . . . will be awarded annually to a student who is completing his third year and will be entering his final year, majoring in Accountancy in the Faculty of Commerce, and who intends on graduation to pursue the qualification of Chartered Accountant. The award will be made on the basis of academic record, ability, personality and other suitable characteristics . . . ".

THE BIRKS FAMILY FOUNDATION BURSARIES. A limited number of bursaries are available under this plan. The student's financial need and academic standing will be considered in the granting of these bursaries. Apply to the Director of Financial Aid.

SOCIETE ST. JEAN BAPTISTE: Le Prêt d'Honneur. Le Prêt d'Honneur offers a loan plan to students during 12 months of the year. Requests for applications should be made to the Director of Financial Aid.

NATIONAL COUNCIL OF JEWISH WOMEN OF CANADA MONTREAL SECTION, BURSARIES. A limited number of bursaries are awarded by the Council upon the recommendation of the Financial Aid Director. Academic standing and Financial need are considered in making the award. Although there is no legal obligation, the Council hopes that the holders will, if possible, return the money at some future time, so that other students may be helped by the College. Apply to the Director of Financial Aid.

THE LOYOLA ALUMNI STUDENT LOAN FUND. The Loan Fund exists to aid students who are in financial difficulties. Because of limited resources, the trustees of the Fund normally will consider loans to students who: 1) have been successful in their last set of final examinations at Loyola; 2) are receiving a bursary from the Province of Quebec; and 3) are prepared to repay the loan by the end of the summer.

Applications should be made in writing to: Loyola Alumni Student Loan Fund, Loyola College, 7141 Sherbrooke Street West, Montreal 262, before DECEMBER FIRST.

B'NAI B'RITH HILLEL FOUNDATION. A limited number of bursaries are available. Amount of each bursary granted from this fund may vary according to the need of any deserving student in any year or faculty, without regard to race, religion or nationality. Apply to Director, Financial Aid.

MR. AND MRS. MEIER SEGALS BURSARIES: A number of bursaries are available, through their generosity, to needy students with good academic standing. Apply, Director, Financial Aid.

THE LOAN FUND OF THE LOYOLA STUDENT ASSOCIATION. This fund was established with a view to aiding students who are in dire financial need. Further details may be obtained at the temporary Student Center Building.

Royal Canadian Engineers Memorial Scholarships.

Scholarships of up to \$500, each are offered annually to students, both male and female, who are attending any educational course of study or practical training course beyond secondary school level. Scholarships are awarded on the basis of merit and need to the most suitable candidates from among those students who apply for the scholarship.

A candidate to be eligible for the Royal Canadian Engineer Memorial Scholarship must be the child or grandchild of a person who served in any rank in any of the following components of the Canadian Armed Forces:

- A Royal Canadian Engineer component of the Canadian Army during World War I, World War 2, or under the United Nations in Korea; or
- The Royal Canadian Engineers in the Canadian Army Regular or Permanent Force or Militia or Non-Permanent Active Militia, for not less than three continuous years; or
- c. The Military Engineers Branch of the unified Canadian Armed Forces for not less than three continuous years after the First day of February, 1966.

Commonwealth Scholarships

Under a Plan worked out at the Commonwealth Education Conference at Oxford in 1959 responsibility is shared between the Canadian Commonwealth Scholarship and Fellowship Committee and the External Aid Office to enable an increased number of abler students to share in the wide range of educational resources available through the Commonwealth. An undergraduate award is made for the period required to enable the student to obtain his degree. For information consult The Canadian Commonwealth Scholarship and Fellowship Committee c/o Association of Universities and Colleges of Canada; or The Director General, External Aid Office. Both at 151 Slater St., Ottawa, 4, Ont.

CHILDREN OF WAR DEAD (EDUCATION ASSISTANCE) ACT. This Act provides assistance towards an education beyond secondary school level for sons and daughters of veterans whose deaths resulted from military service during World War I, World War II, or the Korean War. If the application is approved, the Department of Veterans Affairs will pay: a) to each student an allowance of \$34.00

per month for the period during which he or she is attending a full-time course, up to a maximum of 36 months; b) to the University, tuition fees and other costs as described in the Act, up to a maximum of \$800 per academic year. Apply to the Department of Veterans Affairs.

Awards

GOVERNOR-GENERAL'S MEDAL. Presented by His Excellency the Governor General of Canada to the student with the highest overall average in Arts.

THE MINISTER OF EDUCATION'S SILVER MEDAL. Presented by the Department of Education, Government of Quebec, to the student with the highest overall average in Science.

THE MINISTER OF EDUCATION'S SILVER MEDAL. Presented by the Department of Education, Government of Quebec, to the student with the highest overall average in Commerce.

LOYOLA GOVERNOR'S MEDAL. Presented by the Loyola Board of Governors to the student with the highest overall average in Engineering.

THE LOYOLA C.O.T.C. MEDAL. Presented by the Loyola College C.O.T.C. to the most representative Loyola student among the graduates.

THE PHILOSOPHY GOLD MEDAL AWARD. Presented by Loyola College to the outstanding student in Philosophy among the graduates, and awarded upon the recommendations of the Philosophy professors.

THE HAMILTON WATCH AWARD. Presented by the Hamilton Watch Company to the student who has most successfully combined proficiency in Accounting with achievement, either academic, extra-curricular, or a combination of both in the social sciences or humanities.

THE HAMILTON WATCH AWARD. Presented by the Hamilton Watch Company to the student who has most successfully combined proficiency in Mathematics with achievement, either academic, extra-curricular, or a combination of both, in the social sciences or humanities.

THE SOCIETY OF CHEMICAL INDUSTRY, CANADIAN SECTION, MERIT AWARD. Presented by the Society of Chemical Industry to the Highest ranking (minimum 75%) student in the fourth year, majoring in Chemistry, Chemistry-Physics, or Chemistry-Mathematics, and who has completed the course in the normal number of years.

Prizes

THE WILLIAM H. ATHERTON PRIZE. Donated by the late Dr. William H. Atherton, and to be awarded to the student outstanding for research in Canadian History.

THE LOYOLA PRIZE FOR MATHEMATICS. Donated by Dr. Isaiah S. Benjamin of Montreal to the student graduating in Science or Engineering with the highest overall average in Mathematics subjects.

THE CHEMCELL LIMITED PRIZE FOR CHEMISTRY. Donated by Chemcell Limited and awarded to the graduating student with the highest four year average in Chemistry subjects.

THE CHEMCELL LIMITED PRIZE FOR ENGLISH. Donated by Chemcell Limited and awarded to the graduating student in the Arts programme, taking a Major or an Honours in English, with the highest overall average in English subjects.

THE ECONOMICS PRIZE. Granted by the College to the graduating student in Arts or Commerce, taking a Major or an Honours in Economics, with the highest overall average in Economics subjects.

THE FRENCH LANGUAGE PRIZES. Donated by the Government of France. THE GERMAN LANGUAGE PRIZE. Donated by the Consulate General of the Federal Republic of Germany to the student who has shown the greatest progress in the German Language course offered at Loyola College.

MONTREAL ECONOMIC ASSOCIATION PRIZE. Donated by the Montreal Economic Association to the third year student taking an Honour or Major in Economics with highest three year average in his economics courses.

THE KNIGHTS OF COLUMBUS PRIZE FOR CANADIAN HISTORY. Donated by the Knights of Columbus of the Province of Quebec and awarded to the student who has obtained the highest mark in Canadian History during the current academic year.

THE PHYSICS PRIZE. Granted by the College to the graduating student in Physics with the highest overall average in Physics subjects.

THE DR. JACQUES SMITH MEMORIAL PRIZE. Donated by Dr. Kurt Ekler in memory of Dr. Jacques Smith, chief of surgery at the Hôtel Dieu Hospital, St. Jérôme, and a graduate of Loyola, who died suddenly in 1960 at the age of thirty six. Awarded to the graduating student with the highest four-year aggregate standing in the Biology-Chemistry course (Science or Arts).

THE MRS. ALFRED THIBAUDEAU PRIZE FOR POLITICAL SCIENCE. Donated by Miss Madeleine Thibaudeau in memory of her mother, Madame Alfred Thibaudeau, and to be awarded to the graduating student with the second highest average in the field of Political Science.

THE MRS. RENEE VAUTELET PRIZE FOR POLITICAL SCIENCE. Donated by Mrs. Rénee Vautelet and to be awarded to the graduating student with the highest average in the field of Political Science.

THE CHEMICAL INSTITUTE OF CANADA PRIZE. Donated by The Chemical Institute of Canada to the third year student taking an Honour in Chemistry with the highest average in his year.

THE PIERRE DESMARAIS PRIZE. Donated by Pierre DesMarais to the Student who has distinguished himself, during his last year, for his contribution to non-academic activities.

THE MICHAEL WATSON MEMORIAL PRIZE. Donated by the Board of Governors of Loyola College to honour the memory of Michael Watson, an outstanding, capable and popular member of the class of 1967 who met his death in a construction accident at the end of his third year college. To be awarded to the student, who, in the judgement of the department, has shown academic superiority in the study of Biology.

THE BRODRICK AWARD. Donated by the Elliott-Marion Pharmaceutical Company Limited in honour of Dr. Robert Brodrick, Arts '43, and awarded to the graduating student athlete who has distinguished himself in academic and extra-curricular endeavors during his years at Loyola.

DIVISION OF STUDENT SERVICES

While the College gives emphasis to formal learning through instruction and study in an enriched curriculum, it clearly recognizes that, in the complete education of the whole person, the student has many other needs—religious, personal, athletic, social—for which it must make provision. To serve these needs the College offers a broad programme of student services. Within the framework of this non-instructional but nevertheless truly educational sphere of college life, the student has ready access to educational, spiritual, and vocational guidance.

The Student Services programme complements the student's formal learning process by providing such educational experiences as are not ordinarily found in the laboratory and the lecture hall.

Within the Division of Student Services are included the Dean of Students, the Dean of Men and Assistant Dean of Men, Dean of Women, Director of Women's Housing, Chaplains, Director of Physical Education and Athletics, Director of Financial Aid, Director of Men's Housing, liaison with the Career Planning and Placement Department, a Canada Manpower division, and Director of Health Services.

THE DEAN OF STUDENTS is responsible for the supervision and coordination of those phases of student life and activity which are not instructional, often called the para-academic programme.

THE DEAN OF MEN, in the absence of the Dean of Students, supervises the Division of Student Services. He has responsibility for the Health Services, Men's Housing and he acts as College liaison officer with the Career Planning and Placement Service. The Dean of Men serves as an advisor and administrative liaison officer with student government. He works with Student Court in the adjudication of cases involving student violations of college policy. Finally, he advises student organizations and is available to assist students in the capacity of ombudsman.

THE ASSISTANT DEAN OF MEN helps the Dean of Men and acts as advisor to evening students and the Evening Student Council; as advisor to fraternities and the Interfraternity Council; as advisor to Maroon and White Honor Society; as advisor to the Science Student Council and the Engineering Student Council, with the respective deans of those faculties. He serves on a number of college life committees.

THE DEAN OF WOMEN acts as advisor to the Loyola Women Students Association and all other women's organizations on campus. She is available to all students for personal counselling and advising and strives to assist women students whenever possible, as ombudsman.

She is directly concerned with the establishment of policy and procedure regarding on and off campus housing for women, and acts as the chief administrative officer in this area. Through the promotion of seminars and guest speakers she endeavours to present programmes of value and interest to women students. Her role in discipline is centered around the educational value of responsible student action. She is a member of the college committees pertaining to student life.

THE CHAPLAINS are responsible for conducting the religious activities that are part of the university programme. They are student counsellors and coordinate religious conselling.

THE DIRECTOR OF PHYSICAL EDUCATION AND ATHLETICS is responsible for college, intercollegiate and intramural programmes, as well as non-credit programmes of an instructional nature in physical education and recreation. The Coaches work with him and under his direction.

THE DIRECTOR OF FINANCIAL AID is responsible for all loan and bursary applications. In addition, all Scholarship applications must be made through his office in his capacity as Executive Secretary of the Scholarship Committee. All students with financial problems should apply for advice and aid through his office. Student Insurance problems, as well as Foreign Student insurance, are handled by this department. It is his responsibility to verify financial position of all foreign

candidates for admission. He also acts as coordinator for all gifts and prizes for Convocation. He is aided by an experienced ASSISTANT DIRECTOR.

THE DIRECTOR OF MEN'S HOUSING is responsible for all on campus men's student housing. He should be contacted by students who desire information with regard to all off campus men's housing. In his responsibilities for on campus housing, the Director of Men's Housing serves as advisor to the Residence Administrative Council, and is available to provide assistance to all resident students in matters which they wish to bring to him.

THE DIRECTOR OF THE CANADA MANPOWER CENTRE has available information regarding career, summer and part-time employment. The Placement Service is operated by Canada Manpower Service. She coordinates the career planning and placement programme.

THE DIRECTOR OF HEALTH SERVICES is a medical doctor serving part time, responsible for the Health Services programme at the college, which includes a full-time nurse and a consultant psychiatrist.

THE HEALTH SERVICE, organized in 1966, strives to maintain the state of health, both physical and mental, required to live a full student life in the university community. Should hospitalization be necessary, this is arranged in a community hospital. The aim of the student Health Service is prevention of illness and maintenance of good health. With these objectives in mind a compulsory medical examination is required of all freshmen on initial enrollment at the college prior to registration. Annual chest X-Rays will be performed on all students at registration. Health information and education are offered in the form of health lectures and seminars.

AN ACCIDENT INSURANCE PLAN giving protection against medical bills incurred as a result of an accident on or off campus, 24 hours a day and 12 months a year, has been initiated by a motion passed in the Lower House of Loyola of Montreal Students' Association on February 23, 1967. Participation in this insurance is a requirement of registration. Those who wish to add sickness to their Accident Policy should consult the Office of the Director of Financial Aid.

NON-CANADIAN STUDENTS who are not landed immigrants are required to enroll at registration for a parallel COMPREHENSIVE SICKNESS AND HOSPITALIZATION POLICY because of the very high hospital costs now current in Quebec. Neither Overseas nor United States students are eligible for Quebec's provincial hospital care plan unless they are landed immigrants. Out of province Canadian students may obtain the same insurance if desired. Because of different reciprocal arrangements between provinces and the high cost of sickness, it is strongly recommended. Non-Canadians who are required to enroll for the comprehensive plan at registration may opt out of the coverage if they can present written proof of the equivalent coverage to the Health Service within two weeks after registration.

COLLEGE RULES AND REGULATIONS. College policies designed for student conduct are made for the sole purpose of guaranteeing that each member of the academic community has the right to study protected from those who are motivated otherwise.

The Loyola Community recognizes the necessity for maintaining an environment conducive to learning through reasonable campus rules and regulations (applied via adequate, substantive and procedural due process) which encourage the student to be self-reliant and responsible.

Further, it is recognized: 1. That such rules and regulations are consonant with the two-fold responsibility of the college to the entire student body and to the student as an individual. 2. That any individual charged with a breach of campus policy be assured a fair and just hearing, be accorded the right to explicitly stated charges, an open hearing, and confrontation of witnesses. 3. That the burden is on the accuser to prove that the accused committed the acts charged, not on the accused to prove innocence.

LIQUOR ON CAMPUS. Students are not permitted to possess alcoholic beverages on the Loyola Campus. Exceptions for group events can be obtained by permission from, and under conditions set by the office of the Dean of Students. Applications for such exceptions must be made one week prior to the event and the Dean of Students office will require written assurance that the laws of the Province of Quebec and the rules of Loyola of Montreal will be observed. However, residence halls shall determine their own policies on the use of alcohol.

ORDERLY CONDUCT. Students are expected to act in an orderly manner on campus. Any student acting otherwise will be subject to penalties according to the gravity of the offense.

DRUGS. The use and/or possession of hallucinogenic drugs, as well as drugs specifically prohibited by law, are not permitted on the Loyola campus. The penalty for the dispensing or sale of drugs on campus may be dismissal.

Respect for college policy requires that each student assume responsibility for his actions, respect constituted authority, protect both private and public property and conduct himself at all times in a lawful manner. This clearly implies that the rights of others are to be respected.

YOUR ATTENTION IS INVITED TO THE FACT THAT REGISTRATION AT LOYOLA OF MONTREAL INVOLVES THE STUDENTS' ACCEPTANCE OF NOT ONLY ACADEMIC REGULATIONS, BUT ALSO THE REGULATIONS GOVERNING STUDENT CONDUCT. THESE RULES ARE SUBJECT TO CHANGE BY ACT OF THE COLLEGE SENATE.

STUDENT HANDBOOK. The Student Handbook published each year is distributed to all students at registration in September. Students are held responsible for knowing and observing the policies contained therein. The Handbook contains a wealth of information which serves as a handy reference for students and faculty alike.

STUDENT COURT. A Student Court composed of five students, one faculty member and one administrator has original jurisdiction over matters involving non-academic student discipline within the College. Consult the Campus Handbook for full details relating to the Court's procedures and authority.

Any member of the Loyola community may refer a case to the Court by submitting the details of his complaint in writing to the Presiding Officer.

PHYSICAL EDUCATION AND ATHLETICS

Loyola College boasts one of the most complete and diversified college athletic and physical education programmes of its type in Canada. This programme operates as an integrated segment of the school's total curriculum aiming to promote a high degree of physical fitness and mental alertness amongst the entire student body.

Thirty-two activities are offered under the supervision of a full-time staff of professionally trained coaches encompassing all popular and individual sports for male and female students; archery, badminton, basketball, bobsledding, body building, bowling, boxing, broomball, cheerleading, cross-country, curling, fencing, field, hockey, figure skating, football, golf, gymnastics, hockey, judo, karate, modern dance, parachuting, physical fitness, sailing, skiing, soccer, swimming and diving, table tennis, track & field, volleyball, weight-lifting and wrestling, In major areas of interest there are four different levels of play and instruction; intercollegiate varsity, intercollegiate junior varsity, intramural, and physical education classes. Loyola varsity squads successfully compete against other top ranked Canadian and regional United States University teams.

The south campus is the focal point of the College's Physical Education and Athletic Programme including full length playing fields for outdoor activities and a new three million dollar physical education centre. Within the confines of the centre are found modern facilities for men and women, featuring an ice-skating arena and a spacious gymnasium able to accommodate 3,000 and 1,500 spectators respectively, a first aid station, administrative offices, numerous dressing rooms, a wrestling and judo room, a completely equipped weight training room, equipment storage rooms, a sports store, lecture hall, food and soft drink outlets, a snack bar, a press box and a physiotherapy clinic. The Loyola Sports Hall of Fame is temporarily housed in the main lobby.

RELIGIOUS ACTIVITIES

In order to make concrete and personal the religious truths, which the students have studied in the Theology courses, Loyola College offers a programme of religious activities calculated to nourish and deepen their personal and apostolic dedication.

DAILY MASSES Two student Masses are offered daily Monday to Friday at 12:05 p.m. and 1:05 p.m. in the College Chapel. Confessors are available during the Masses. In Hingston Hall Mass is offered daily at 8:00 a.m.

SUNDAY MASS A University Community Mass is celebrated each Sunday at 11:15 a.m. in the College Chapel. Students and Faculty are invited to attend.

LOYOLA CHRISTIAN STUDENTS ASSOCIATION This organization, formerly the Sodality of Our Lady, exists for those students who have a more than passing concern for living their faith. Within the LCSA these students find opportunity to join in group discussion on those religious problems and topics which currently affect their lives.

WEEKEND RETREATS Retreats as well as Religion and Life Study Days are scheduled each year. A special retreat is offered to the Senior Students. Dates and location of the Retreats and Study Days will be announced.

CHAPLAIN—COUNSELLORS Two Chaplains are available at all times for religious and personal counselling.

Location of Counsellors:

Rev. J. O'Neill, S.J., Tel. 262, Room CC-323 Rev. A. Nelson, S.J., Tel. 325, Room RF-309 Rev. N. Konlup, Tel. 364, Room AD-124

JOHN XXIII DIOCESAN STUDENT CENTER

Sponsored by the Archdiocese of Montreal as an information Center on the various Apostolic Works and projects available to Young People. Also counselling and guidance with reference to Religious Vocations to the Priesthood. Visitors welcome to Lounge, Reading Room, and daily Mass in the house Chapel.

Address: 3500 Belmore Ave., Phone: 489-6285; Student's Phone: 482-7397. Director: Rev. D. McCormack. Associate Director: Rev. E. Schibli.

STUDENT GOVERNMENT

The Loyola of Montreal Students' Association, which became a corporation in 1966, is the governing body of the Student Association. All full-time day students are automatically members. A student activity fee collected from the day students at registration finances the L.M.S.A.

Its general purpose is to: a) form a representative association to promote the educational, social and cultural interests of its members; b) form a representative association to promote the general welfare of its members; c) co-operate with other organizations having similar interests in promoting student activities.

The L.M.S.A. is composed of three elements: the Executive, the Board of Directors (legislative body), and the Senate (judicial body).

The Executive

The President, Vice-President for Internal Affairs, Vice-President for External Affairs, Vice-President for Educational Affairs, and the Vice-President for Financial Affairs. There is also a permanent Treasurer and Secretary. The President and Vice-President for Internal Affairs are elected annually on a ticket basis, and it is they who appoint the other members of the Executive.

The Executive forms the core of the Executive Council, which is also composed of: Dean of Men, Athletic Association President, Resident Administrative Council President, News Editor-in-Chief, Inter-Fraternity Council President, International Students' President, Women's Association President, Faculty Presidents' Representative and External P.R. Chairman.

The task of the Council is to advise the Executive with regards to the many problems encountered in the policy and decision-making of the Student Association.

The Senate

The judicial body of the L.M.S.A., the Senate is composed of seven members elected by the Board of Directors from a slate prepared by the outgoing Senate. Only students in third or fourth years are eligible for election, and there must be at least three members from each of these years.

The Senate is the body in the L.M.S.A. which has judicial jurisdiction over any matters affecting either student discipline or constitutional interpretation.

The Board of Directors

The Board of Directors is the legislative body of the L.M.S.A. Sixteen members are elected annually as voting members of the Board, in proportion to faculty enrollment. Their primary purpose is the regulation and co-ordination of the policies and activities of the Association in the best interests of the students.

The Board directs the programmes of the students finances, and is in general the sole representative of the Association before the Administration of Loyola. The executive of the association implements its decisions, acts for it before the general public, and before any party having business with students as a group. The nonvoting members of the Board include the Chairman, Secretary, Senate Representative, Fr. President's Representative, Publicity Director, and the L.M.S.A. Executive (excepting the President and Vice-President for Internal Affairs).

L.M.S.A. Committees

The workload undertaken by the L.M.S.A. each year is so enormous that committees are formed to bear a large portion of the burden. The committee chairmen are appointed by the L.M.S.A. Executive, which receives applications and interviews interested students in late spring. The members of the committees are then appointed by the Chairman.

The types of committees range from those undertaking and organizing special events, to those in charge of a specialized political or administrative area of student government. A few examples of L.M.S.A. Committees would be Freshman Reception Association, Carnival, Leadership Conference, and Social Works.

Publications

In 1966 the Board of Directors turned over publishing rights to the Board of Publications whose primary function is to affirm and ensure free responsible student press.

The Board is composed of five voting members, with jurisdiction over the Loyola NEWS, the official student newspaper, the Review, the student yearbook, Amphora, the literary magazine, the Student Handbook, the Student Directory, and all other minor campus student publications.

Social Activities

The chief social events of the year take shape in the Freshmen Week, Homecoming Week, the Athletic and Faculty dances, the Winter Carnival, and the L.M.A.A. and L.M.S.A. Awards Banquets.

Societies and Organizations

There are over forty organizations on campus which vary in nature and scope from academic, ethnic, dramatic and musical to progressional, political, recreational and special interest. A few examples of these organizations would be the Commerce Society, Debating and Political Sc. Students Association.

Drama Society

The purpose of the Drama Society is to actively promote interest in drama on campus and specifically to produce several productions during the academic year. For the first time, in the academic year 1968-1969, Loyola hired its own full-time Drama Director. For the first time also they produced three major plays: "Oh Dad, Poor Dad, Mama's Hung You in the Closet and I'm Feeling So Sad", "The Firebugs", and "Until the Monkey Comes". This past year there were also workshops in acting, directing and playwriting. This year there will be seven major productions at Loyola. Four will be put on by Loyola itself and three by touring companies.

Fraternities and Sororities

Loyola at present has four permanently recognized fraternities on campus; the Kappa Chi chapter of the International fraternity, Tau Kappa Epsilon; Theta Sigma, the Sigma Delta Phi chapter of the International fraternity Phi Kappa Theta and Delta Epsilon Rho.

Loyola has three sororities—Phi Delta, Lambda Pi Epsilon, and Zeta Tau Omega.

Loyola of Montreal Athletic Association

The primary purpose and responsibility of the Loyola of Montreal Athletic Association and that of its executive is assisting the Athletic Director in the promotion of the athletic programme. However, the success of any athletic programme depends upon the student's interest and participation in the variety of physical education activities available.

The LMAA executive consists of a president, a vice-president, a secretary-treasurer, and a publicity chairman. The LMAA Board includes the executive, the Intramural Athletic Council President, the Sports Store Manager, and a representative of each varsity sport. In an attempt to establish a closer union between the LMAA and the IAC, a constitutional amendment was passed recently whereby the LMAA Vice-President also holds the position of IAC President. In the past these two positions were held by separate individuals.

UNIVERSITY ROTP TRAINING UNITS

The Regular Officer Training Plan

Introduction

The Department of National Defence, through the Regular Officer Training Plan (ROTP), sponsors a programme of university education and leadership training for selected numbers of young men who have the potential to become officers in the Canadian Armed Forces.

Candidates with senior matriculation, junior matriculation, or who are university undergraduates taking suitable courses, are eligible to apply for enrolment as officer cadets in the component of their choice. The admission standards are high, but for those who qualify, the way is open to a challenging and rewarding career. Students who are selected for ROTP while attending university will be enrolled in the component of their choice while continuing their university studies.

Training in the ROTP is divided into two parts. Cadets attend a Canadian Military College or a civilian University or College throughout the academic year and then go to a unit or training establishment of their component for training each summer.

Academic Training

In general terms, the courses which are needed in business and industry are also required in the Armed Forces.

The following are broad patterns:

Engineering—Civil, Mechanical, Electrical, Engineering Physics, Chemical.

Arts-General, Honours.

Science-General, Honours.

Commerce-General, Honours.

Conditions of Service

Successful applicants will be enrolled as officer cadets in the Canadian Armed Forces and remain in that rank until completion of their academic training under ROTP. Thereafter, they will normally be commissioned and promoted to Lieutenant. Cadets are obliged to maintain good standing academically and in military training. A cadet who fails a year, or who lacks adequate standing in a subject from a previous year, loses his benefits. On the recommendation of his faculty, he may be permitted to repeat one year at his own expense and, if successful, be reinstated.

Financial Assistance

To cover the cost of education, the Department of National Defence will pay tuition and all essential fees. Books and instruments needed for study are provided free at the Canadian Services Colleges. Students attending university under the ROTP are granted \$125.00 each academic year for the purchase of books and instruments.

Officer Cadets of the ROTP are paid at the rate of \$193.00 per month upon enrolment, increasing to \$198.00 per month after three years of continuous service. Cadets attending a civilian university must individually arrange for their food and lodging. All Officer Cadets are assessed \$85.00 per month for rations and quarters while on summer service training.

An Officer Cadet is provided with uniforms and equipment for ROTP training. After graduation, on being commissioned as an officer, he will be entitled to an outfit allowance of \$450.00 for the purchase of uniforms and accourtements.

Admission Requirements

An applicant must have the following qualifications:

- a. CITIZENSHIP
 - —be a Canadian citizen.
- b. MARITAL STATUS
 - —be single and remain so until commissioned.
- c. MEDICAL
 - be physically fit for enrolment in the component of his choice.
- d AGI

—have reached his 16th birthday, but not his 21st birthday on the first of January of the year of entrance if applying with a senior matriculation; or his 20th birthday if applying with a junior matriculation. Consent of a parent or guardian is required if he is under 18 years of age.

How to Apply

Application should be made by calling the Canadian Forces Recruiting Centre, 1254 Bishop Street, Montreal. Telephone - 879-6518.

FEES SCHOLASTIC YEAR - 1969-1970

Regulations regarding payment of tuition and fees

TUITION AND FEES MUST BE PAID AT THE TIME OF REGISTRATION. However, a student may, in special cases of hardship and with the consent of the Bursar, pay Tuition and Fees in two instalments. The first instalment of Tuition and Fees covering the First term must be paid in full at registration. The second term fees to be paid in full on January 2nd following. In such cases an instalment fee of \$10.00 will be charged. Evidence of Loyola Scholarship Awards or Loyola Bursaries must be submitted at time of registration. If a partial Loyola Scholarship or Bursary is awarded, the balance of Tuition and Fees must be paid at registration. Students who have applied for Provincial or Federal Government Bursaries must still settle their fees at registration in accordance with the above.

Students will not be considered registered and may not attend classes until the required fees have been paid or arrangements for payment made with the Bursar. Failure to make payments of tuition, fees or other amounts owed the College when due, or to arrange for such payments before their delinquent dates, is sufficient cause to bar the student from classes or examinations and to withhold diploma, scholastic certificate or transcript of record until the debt has been adjusted with the Bursar's Office.

Any damage done to any property of the College will be charged to the offender's account.

Drafts, cheques, money orders, etc., should be made payable at par to "Loyola College" and addressed to the Bursar, Loyola College, 7141 Sherbrooke Street West, Montreal 262, Quebec.

All accounts are subject to revision for adjustment of errors. The College also reserves the right to make changes without notice in the published scale of fees. FEES MUST BE PAID ON DUE DATE

NO BILLS ARE ISSUED

GENERAL FEES - TUITION

•	ARTS (General Course)*							
	All years	\$270.00	per	half	year	\$540.00	per	vear
•	ARTS (with pre-Medical s	ubjects)				,	p 0.	,
	All years	\$287.50		half	year	\$575.00	per	vear
•	COMMUNICATION ARTS*						F-0.	,
	All years	\$287.50	per	half	year	\$575.00	per	vear
•	SCIENCE*					,	,	,
	All years	\$287.50	per	haif	year	\$575.00	per v	vear
•	ENGINEERING*					,	,	,
	All years	\$297.50	per	half	year	\$595.00	per v	/ear
•	COMMERCE*							
	All years	\$270.00	per	half	year	\$540.00	per y	/ear
*T	he above fees were applicable to 1968							

above fees were applicable to 1968-69 academic year and are subject to change for the 1969-70 academic year without notice.

N.B.—IN CASES WHERE CHEQUES ARE RETURNED TO THE COLLEGE MARKED "NOT SUFFICIENT FUNDS" THERE WILL BE A \$5.00 CHARGE.

-A \$15.00 SURCHARGE WILL BE ADDED TO ALL UNPAID FEES PRIOR TO END OF ACADEMIC YEAR.

Postdated Cheques Will Not Be Accepted Tuition and Fees are payable in Canadian Funds

Student activity

Student Administrative Council	\$20.00
Student Centre Building Fee. Lovola College Athletic Association	320.00
Loyola College Athletic Association	10.00
Total (payable as association)	17.00
Total—(payable at registration)	\$47.00

Special fees

Payable at registration

Tuition, extra subject (in addition to regular program)	6100.00
Registration Fee (march)	\$100.00
ACAISH ALLOH I CC (DAVADJE ON HIEL ANTRANCA ONLY)	E 00
Late Registration ree—for first day	10.00
Late Registration Fee—each succeeding day.	10.00
Tite Registration ree—each succeeding day	3.00
Diorary I Co	5.00
Medical Fee	
Academy	3.00
recident insulance-Compilisory	5.00
Graduation Fee—4th year students	
Comprehensive City van students	20.00
Comprehensive Sickliess and Mosnifalization (non-Canadian students	
require)	
	25.00
T 1 m m 1 m m m m m m m m m m m m m m m	

^{*} Lockers: Rental-\$5.00 Locks-\$2.00

* To be paid in cash at Registration. College locks must be used. \$1.00 will be refunded at the Bookstore during month of May, only, for each lock in good condition, labelled with combination.

Payable on date of each application

Supplemental examination, each	15.00
* Transcripts (Pull)	1.00
* Transcripts (Partial)	.50
Local examination privileges, each examination	
* TRANSCRIPTS ARE RELEASED ONLY WHEN ALL OUT- STANDING BALANCES HAVE BEEN PAID.	
Duplicate of Official Receipt	2.00

Withdrawals and adjustments

FUNDABLE.

ANY STUDENT WHO IS FORCED TO WITHDRAW FROM A COURSE OR FROM THE COLLEGE IS REQUIRED TO NOTIFY THE REGISTRAR IN PERSON OR IN WRITING. WITHDRAWAL NOTICES FOR PURPOSES OF REFUND WILL BE EFFECTIVE ON DATE OF RECEIPT BY THE REGISTRAR. NO TELEPHONE WITHDRAWALS WILL BE ACCEPTED.

IF, AFTER PAYING THE FEES, A STUDENT FINDS IT IMPOSSIBLE TO CONTINUE AT COLLEGE, A REFUND OF *TUITION* ONLY WILL BE MADE FROM THE DATE OF WITHDRAWAL ON THE FOLLOWING BASIS:

Registration date to September 30	
·	BASIC CHARGE OF TUITION - 1/8
October 1 to October 31	
1 10 0010001 31	BASIC CHARGE OF TUITION - 2/8
November 1 to November 30	Brisic Character 10111011 270
November 1 to November 30	BASIC CHARGE OF TUITION - 3/8
D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BASIC CHARGE OF TOTTION - 3/6
December 1 to January 15	D. C.
	BASIC CHARGE OF TUITION - 4/8
January 16 to January 31	
	BASIC CHARGE OF TUITION - 5/8
February 1 to February 28	
·	BASIC CHARGE OF TUITION - 6/8
March 1 to March 31	
	BASIC CHARGE OF TUITION - 7/8
After March 31 - NO REFUND.	
	THEN SPECIAL PERS ARE NOT BE
STUDENT ACTIVITY FEE AND O	THER SPECIAL FEES ARE NOT RE-

Residence

Mer

Hingston Hall, completed in 1963 and located on campus, is a modern edifice providing room and board for 306 students. This residence has two four-floor wings, centered by the main entrance and the common lounge. Student recreational facilities, study rooms, offices and chapel are located on the ground floor. Meals are served in an attractive refectory, cafeteria style. The aim of Hingston Residence is to promote spiritual, democratic, athletic, social and cultural ideals moulded into an ideal student educational atmosphere. To serve this end, academic and spiritual counsellors, as well as student resident assistants, are available for student guidance. Hingston Hall has 132 single rooms and 84 double rooms available. Room facilities include bed linen and blankets.

All Freshmen coming from outside the Montreal area, under twenty-one years of age, are obliged to live in Residence.

Women

Langley Hall, the residence for women students, was opened for occupancy in the fall of 1967.

The residence, a three story brick building, is located at 6900 Sherbrooke St. West, two blocks from the main campus. Attractive accommodations are available for approximately 125 women in the completely renovated and equipped building.

Single, double and triple rooms are provided (no private baths). The rooms are completely furnished and the housing contract includes the rental of pillow, blankets and linen. Dining facilities do not exist in Langley Hall; all meals are served in the men's residence, Hingston Hall.

All Freshmen under twenty-one years of age, who cannot live at home, are obliged to live in residence.

Off Campus Housing Policy

All freshmen students under twenty-one years of age not living in the home of their parents or legal guardian, shall be required to live in residence. Exceptions to these policies may be made for sufficient reason by the Dean of Women or the Director of Men's Housing. Permission to live out of residence requires a letter of approval from parents, except, of course, for those over twenty-one years of age. All students living off campus, but not at home, must list their Montreal area address with the Dean of Students office.

Fees for Residence

Parking facilities for resident students are the same as for other students on the campus. Parking permits may be obtained for a fee of \$20.00. Residence fees (exclusive of the Christmas holidays) are as follows:

Double Room and Board	\$840.00
Double Koom and Triple Room and Board (Women's Residence)	840.00
Single Room and Board	880.00
Damage fund	16.00
Dumage rand	15.00

The room deposit of \$50.00 will be deducted from the payment due on entrance. The money will be refunded if the student is not accepted or if the applicant cancels the room reservation by September 1, prior to registration.

RESIDENCE FEES MAY BE PAID IN TWO INSTALMENTS. THE FIRST INSTALMENT OF RESIDENCE FEES COVERING THE FIRST TERM MUST BE PAID IN FULL AT REGISTRATION.

THE SECOND TERM FEES MUST BE PAID IN FULL ON OR BEFORE JANUARY FIFTEENTH FOLLOWING.

Residence fees, paid in full, on or before September 1, will be subject to a discount of \$10.00.

No student will be permitted into residence before settlement of the account has been made in accordance with the above regulations.

The College reserves the right to make changes without notice in the published scale of fees, if, in the opinion of the College, circumstances so require.

Students will not be considered registered and may not attend classes until the required fees have been paid or arrangements for payment made with the Bursar. Failure to make payments of tuition, fees or other amounts owed the College when due, or to arrange for such payments before their delinquent dates, is sufficient cause to bar the student from classes or examinations and to withhold diploma, scholastic certificate or transcript of record until the debt has been adjusted with the Bursar's Office.

Application for men's residence should be made to the Manager of Hingston Hall, Loyola College, 7141 Sherbrooke West, Montreal 262, Quebec.

Application for women's residence should be made to the Dean of Women, Loyola 'College, 7141 Sherbrooke West, Montreal 262, Quebec. Application forms and further information may be obtained by writing to the above.

To ensure favourable consideration of your application, it is recommended that applications be submitted prior to August 15.

The College reserves the right to place the student in whatever rooms seem to be best in the interests of the men's programme as a whole, but careful consideration will be given to preferences expressed.

If a student withdraws from residence without permission of the Director, no refund will be made on room and board. If permission is given for serious reasons, a pro-rated refund less 10% will be made on room and board.

All residence fees are payable IN CANADIAN FUNDS, and cheques will be made payable to Loyola College. Residents are required to vacate their rooms within 24 hours of the last examination.

FACILITIES

BUILDINGS: Loyola College is located on a fifty-acre site in the west end of Montreal. The structures of the College are: the Refectory Building (built in 1916); the Administration Building (1927); the Cafeteria and Physical Services Building (1923); the Chapel and Auditorium (1933); the Central Building (1947); the Drummond Science Building (1962); Hingston Hall (1963); the Georges P. Vanier Library (1964); the Physical Education Centre (1966); and buildings acquired to serve as Women's Residence (Langley Hall, 1967), and Faculty, Administration and Student Government offices (the Hackett and Cloran Buildings, 1965, and the Centennial Building, 1967).

The latest addition to the College is the W.F.X. Bryan Building (1967). It houses 22 lecture rooms, an auditorium, 2 Biology labs, approximately 15 Psychology labs, and one of the best equipped Communication Arts Departments in Canada, consisting of a combination T.V. Studio and film studio, audio, visual and lighting control rooms, 2 radio studios, a photography studio, dark room, projection rooms, animation facilities and a multi-media room.

LECTURE AND SEMINAR ROOMS: The 49 lecture rooms and 8 seminars have a total seating capacity of 2,614 and 171 respectively. The four auditoria can seat 1,265, the largest being the F. C. Smith Auditorium which seats 570.

LABORATORIES: About 65,000 square feet of floor space is devoted to laboratories, allowing 1,248 students lab facilities at one time. This includes laboratories for Chemistry, Physics, Engineering, Geology, and Biology. In addition there is a calculating room with a seating capacity of 25 and 2 Language Labs with a total seating capacity of 66. The Computing Centre provides facilities to satisfy the computing requirements of students, faculty, and administration. Hardware includes an IBM 1620, a Univac 9200 with on-line communications to a Univac 1108, Datacom terminals communicating with an IBM 360/50, electronic calculators, key punches, and peripheral tabulating equipment. A work area is allocated to students. The Bryan Building houses the Psychology Labs which include Human Learning Labs, and Surgery Rooms. The Communication Arts Laboratories contain a T.V. Studio, Projection Room, multi-media room, film editing and photo studios.

MAIN CHAPEL: The College Chapel has a seating capacity of approximately 500. RESIDENCES: The men's residence, Hingston Hall, provides accommodations for 300 male students; the women's residence, Langley Hall, can accommodate 127 female students.

LIBRARIES: The Georges P. Vanier Library provides students with one of the most modern and well-equipped libraries in Greater Montreal. The library contains close to 115,000 volumes, spread over 3 floors. There is a total seating accommodation for 600 students.

The Science Library which is situated in the Drummond Science Building, serves the Biology, Chemistry, Engineering, Geotechnical Science, Mathematics, and Physics Departments.

The Library hours are as follows:

VANIER LIBRARY

Monday to Friday 8:30 a.m. to 10:15 p.m. Saturday 9:00 a.m. to 5:00 p.m. Sunday 2:00 p.m. to 6:00 p.m.

SCIENCE LIBRARY

Monday to Thursday 9:00 a.m. to 5:00 p.m. 7:00 p.m. to 10:00 p.m. Friday 9:00 a.m. to 5:00 p.m.

The libraries are closed on all legal holidays.

INCOME AND NEEDS OF THE COLLEGE

The replacement value of Loyola College in buildings and educational equipment is in excess of thirty million dollars. The development plan for Loyola College to 1975 includes the recently completed W. X. Bryan Building, a student centre, additions to laboratory and classroom facilities, a faculty residence, an engineering building and residences for men and women.

THE CAPITAL DEVELOPMENT PROGRAMME Continual building needs call for continuing capital development support from individuals, buildings and corporations. Government grants, tuition fees and miscellaneous operational revenues of Loyola do not cover the expense of providing educational services. As with all universities, Loyola depends on the generosity of parents, graduates and friends to provide the additional funds required to meet construction and operating needs.

THE FACULTY ENDOWMENT FUND The need to keep pace with the growing demands for increased faculty membership of the highest qualification can be met only if an endowment fund of substantial size is available to supplement current revenue and grant funds.

THE VANIER LIBRARY ENDOWMENT FUND Contributions provide for the growth of Library holdings and facilities at Loyola commensurate with student study and research needs.

SCHOLARSHIP AND BURSARY ENDOWMENT Loyola receives continuous requests from talented and worthy students for financial aid. Both Annual and Funded scholarships and bursaries are sought to meet this need.

THE INSURANCE ENDOWMENT FUND A relatively small Life Insurance premium payment each year out of current Income can provide a gift to Loyola of substantial size. The death of the donor will not interrupt the completion of the gift, nor will the estate of the donor be diminished for the rest of the family.

LOYOLA ALUMNI ASSOCIATION

The Loyola Alumni Association has as its object the advancement of the interest and the promotion of the welfare of Loyola College, of the Association and its members, and the maintenance of the fellowsnip developed during academic life through social, spiritual and cultural activities.

During the course of the year, the Loyola Alumni Association sponsors the Golf Tournament, 'Homecoming' Dinner-Dance, Oyster Party, Memorial Mass, a Cultural Event and an Alumni Sports Night. It also sponsors the selection and presentation of the Loyola Medal to outstanding Canadians. The Loyola Alumni Association publishes a quarterly magazine, the Loyola Alumnus, and offers the services of its office to aid individual classes in organizing and preparing Class Reunions.

A General Meeting is held every year, generally at the College. At this meeting officers for the coming year are elected and all matters of general business transacted. The Loyola Alumni Association sponsors the Loyola Alumni Student Loan Fund, the Post-Graduate Bursaries, the Under-Graduate Bursaries and the Loyola College Endowment Fund.

Annual giving by Alumni represents the largest single source of support to universities and colleges in North America. A regular yearly contribution to the Loyola Alumni Association supports a variety of aid programmes to Loyola College and her students.

The office of Bernard McCallum, the Director of Alumni Affairs, is located in the Hackett Building situated at 7270 Sherbrooke Street West, Second Floor.

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